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PERSONAL.

Mr. Louis J. Kelsey, City Engineer of Salt Lake City, Utah, has resigned.

Mr. A. H. Thomas has been appointed Mechanical Engineer of the Chicago, Milwaukee & St. Paul Ry.

Mr. J. J. Burns, Superintendent of the First Division of the Denver & Rio Grande Ry., has resigned.

Mr. S. E. Folk has been appointed Superintendent of the electric light and water-works plant of Bryan, O.

Mr. Charles L. Hyde has been elected President of the Brunswick & Birmingham R. R., succeeding Mr. E. C. Machen.

Mr. Howard E. White, Civil Engineer, in the employ of the Derby Gas Co., Derby, Conn., has accepted a position with the New Haven Gas Co.

Mr. Richard A. Jones has been appointed Superintendent of Streets of Waltham, Mass., and Mr. Samuel Patch Superintendent of Public Buildings.

Mr. Everett Arthur Hadley, Civil Engineer in the employ of the Boston & Maine R. R., was married on Feb. 5 to Miss Lilla Mae Sturtevant, of Lowell, Mass.

Mr. Anson W. Burchard, employed by the General Electric Co. as Consulting Engineer, has been elected Second Vice-President of the Greene Consolidated Copper Co.

Mr. H. W. Bassett has been appointed to succeed Mr. H. F. Martin as Superintendent of Bridges and Buildings of the Pacific Co., with headquarters at Seattle, Wash.

Mr. C. A. Buch, General Manager of the Altoona & Logan Valley Electric Ry., Altoona, Pa., has resigned, and is succeeded by Mr. S. S. Crane, heretofore Superintendent.

Mr. J. J. Bellman, Assistant Engineer with Westinghouse, Church, Kerr & Co. for the past two years, has entered the employ of H. B. Coho & Co., 149 Broadway, New York.

Mr. W. C. Brown, Vice-President and General Manager of the Lake Shore & Michigan Southern R. R., has been elected Third Vice-President of the New York Central & Hudson River R. R.

Mr. H. G. Clark, General Superintendent of the Missouri Pacific Ry., has resigned to accept the office of General Manager of the Choctaw, Oklahoma & Gulf R. R., with headquarters at Little Rock, Ark.

Mr. F. L. Niederheiser has been elected President of the Ohio Society of Surveyors and Civil Engineers. Mr. Niederheiser is Surveyor of Ashland county and City Engineer of Ashland, O., and was Vice-President of the society last year.

Mr. A. H. Smith, General Superintendent of the Lake Shore & Michigan Southern R. R., has been appointed General Superintendent of the New York Central & Hudson River R. R., succeeding Mr. P. S. Blodgett, appointed General Manager of the first-named road.

Mr. F. N. Risteen, Assistant Superintendent of Motive Power of the Chicago Great Western Ry. at Oelwein, Ia., has been appointed Division Mechanical Superintendent of the Atchison, Topeka & Santa Fe Ry., with headquarters at Topeka, Kan. Mr. C. M. Taylor, Division Master Mechanic of that road at Albuquerque, N. Mex., has been appointed Division Mechanical Superintendent at La Junta, Colo.

Mr. John B. Dickson has been appointed Assistant Engineer of Maintenance of Way for the entire Baltimore & Ohio Ry. system (including the Baltimore & Ohio Southwestern Ry., Pittsburg & Western Ry., etc.). His headquarters are at Baltimore, Md. He was formerly connected with the engineering force of the Pennsylvania R. R., and has for some years been Division Roadmaster of the Chicago & Northwestern Ry. He held the position of Secretary of the Roadmasters' and Maintenance-of-Way Association for several years previous to 1901, when he resigned the office.

Mr. P. S. Blodgett, General Superintendent of the New York Central & Hudson River R. R., has been retransferred to the Lake Shore & Michigan Southern R. R. as General Manager, whence he was brought to the New York Central last summer. Mr. Blodgett is 49 years of age, and entered railway service in 1869. He entered the employ of the Chicago, Burlington & Quincy R. R. in 1876 and was advanced through the offices of Assistant Superintendent, Division Superintendent, General Manager of some of that company's branch lines until 1896, when he became General Manager of that system. In 1901 he left the company to accept the management of the Lake Shore.

Capt. David P. Jones, U. S. N., retired, M. Am. Soc. M. E., who will serve as Consulting Mechanical Engineer to the World's Fair at St. Louis, Mo., in 1903, has reported to President Francis, of the Exposition, for duty and will have supervision of all operating machinery at the Exposition. Captain Jones is regarded as an authority in naval mechanics, and is well fitted for his new duties by his service as Instructor at the United States Military Academy; in the Bureau of Steam Engineering; Professor of Engineering at the Kansas Normal College at Fort Scott, and Chief Engineer of the United States Naval Training Station. He was born in Philadelphia in 1843, and entered the Navy as Third Assistant Engineer in 1862, becoming Second Assistant in 1863, First Assistant in 1868, and Chief Engineer in 1889. Under leave of absence in 1868 he became Engineer of the St. Louis & Southwestern Ry.; he superintended the construction of the railway transfers at Evansville, Ind., and Henderson, Ky. In the Bureau of Steam Engineering he aided in the designing of the first fleet of gunboats built after the Civil War; and in 1873 was appointed Instructor at the Naval Academy, where he organized the department of mechanical drawing and designing of machinery. At the outbreak of the Spanish-America War he was ordered as Inspector of steel and engineering machinery in the district of Pittsburg. Since the close of the war he has practiced in Mechanical Engineering.

OBITUARY.

Lieut. Edwin S. Jacob, U. S. N., retired, in charge of the Hydrographic Office at Galveston, Tex., died in that city on Feb. 7.

Mr. Edward L. Adams, Assistant to the President of the Sargent Co., died Jan. 31 at his residence in Chicago. He had formerly held the position of Mechanical Engineer and Assistant Superintendent of the open-hearth steel plant. He was born at Philadelphia in 1875.

Mr. Francis U. Downing, Civil and Mechanical Engineer, died suddenly at his home in Columbus, Ga., on Jan. 29, aged 51 years. Mr. Downing graduated from Yale College in 1872 and took a post-graduate course at Sheffield Scientific School, graduating in 1875.

Mr. Owen W. Pfouts, City Engineer of Alliance, O., died at the home of his parents in Canton, O., on Feb. 2. Mr. Pfouts was born in Canton in 1867. He was first appointed City Engineer in 1896. The establishment of the city sewage-disposal works, the purchase of the water-works and various other improvements are largely due to his efforts.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Feb. 18. Annual meeting at New York city (99 John St.). Secy., R. W. Raymond, New York.

RAILWAY SIGNALING CLUB.
March 11. Annual meeting at Chicago (Great Northern Hotel). Secy., C. O. Tilton, C., M. & St. P. Ry., West Milwaukee, Wis.

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION.
March 18, 19, 20. Annual convention at Chicago. Secy., L. C. Fritch, 1562 Monadnock Block, Chicago.

FRANKLIN INSTITUTE.—At the Mechanical and Engineering Section meeting on Feb. 13, papers will be read as follows: "Water Meters," Mr. W. Ferris; "Motor Drives as Applied to Machine Tools," Mr. Chas. Day. The report of the committee on the metric system will be presented and discussed.

WESTERN SOCIETY OF ENGINEERS.—At the meeting on Feb. 5, Mr. J. W. Alvord read a paper on "Sewage Purification Plants," which was illustrated by lantern slides of a number of drawings and photographs. The paper brought out some considerable discussion, more especially in regard to the use of the septic-tank system.

NEW JERSEY ASSOCIATION OF COUNTY ENGINEERS.—At the annual meeting, held at Trenton, N. J., on Jan. 28, officers were elected for the coming year as follows: President, J. Owens; Vice-President, J. D. Albertson; Secretary, R. A. Meeker; Treasurer, R. J. Doughty. The next meeting will be held in May at Atlantic City. The question of good roads was discussed at some length, and it was decided that trap rock was the best for all purposes; where this could not be used with economy, certain grades of granite are permissible. Limestone and all shaly stones are not to be used. It was also decided to ask the legislature to increase the annual road appropriation, if possible to double the present figure of $150,000. Secy., R. A. Meeker, Union, N. J.

IOWA ENGINEERING SOCIETY.—At the 14th annual meeting, held at Cedar Rapids on Jan. 15, 16 and 17, 1902, the following papers were read and discussed: "A Tunnel Construction for Underground Steam Pipes," Prof. G. W. Bissell; "Laying Submerged Water Pipes," Chas. J. Fox; "Track-Laying Machinery," G. D. Weeks; "Sewerage and Sewage Disposal for Small Towns," a discussion opened by Prof. A. Marston; "The C. & N. W. Ry. Bridge at Boone," W. C. Armstrong; "Engineering and Mechanic Arts," Prof. A. V. Sims; "Village Platting and Farm Drainage," P. I. Peterson; "Land Surveys, Ancient and Modern," C. R. Allen; "Concrete," a discussion led by Prof. A. V. Sims; "Practical Tests for Impurities in the Air we Breathe," L. Higgins; "The Land Surveys of the United States and Canada," C. R. Allen; "Construction of Sea Walls Along the River at Des Moines," J. B. Marsh. The President's address was read by President M. L. Newton. The Paving Brick Test Committee presented its report, read by Prof. A. Marston. The following were elected as officers for the coming year: President, M. L. Newton; Vice-President, G. Davis; Secretary and Treasurer, T. R. Warriner.

Secy. pro tem., C. R. Allen, Ottumwa, Ia.

NEW PUBLICATIONS.

BROOKLYN ENGINEERS' CLUB. Proceedings for 1901. Office of Secretary, 191 Montague St., Brooklyn. Cloth; 6 × 9¼ ins.; pp. 145; illustrated. $2.00.

Contents: Constitution, list of members, fifth annual meeting, memoirs. Papers read: The Burning of City Wastes, M. Craven; Acetylene Lighting, E. H. Foster; Recent Reports on Present and Future Water Supply of New York, A. S. Tuttle; Practical Sewer Construction, J. C. Meem; Sand Filter Construction, F. W. Conn; Foundation Work and Contractors' Plant Manhattan Ry. Co.'s Power Houses, F. G. Cudworth; New East River Bridge, O. F. Nichols.

REPORT OF THE COMMISSIONER OF EDUCATION FOR THE YEAR 1899-1900, Vol. 2. Washington, D. C. Cloth; 6 × 9 ins.; pp vii. and 1,281–2,648.

The contents of this volume of the report fall under the following chapter-heads: History of the Hopkins Grammer School, New Haven, Conn., 1660-1900; The Language Question in Greece; Miscellaneous Educational Topics; Educational Matter in Various States; Consular Reports; Sociology at the Paris Exposition; Education in the Philippines, Cuba, Porto Rico, Hawaii and Samoa; Education at the Paris Exposition; Education in France; Education in Alaska; Introduction of Reindeer into Alaska; City School Systems; Institutions of Higher Education; Professional Schools; Agricultural and Mechanical Colleges; Statistics of Normal Schools; Statistics of Secondary Schools; Manual and Industrial Training; Commercial and Business Schools; Education of the Colored Race; Statistics of Reform Schools; Schools for the Defective Classes; Statistics of Public Kindergartens; Current Topics; Statistics of Elementary Education in Foreign Countries.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

VALVES AND FITTINGS.—Best Mfg. Co., Pittsburg, Pa. Paper; 4½ × 7 ins.; pp. 16.

This is a series of 14 tables giving all dimensions, etc., of this company's valves, flanges, and pipe fittings. The tables are arranged very conveniently on continuously-folding sheets of cardboard.

SYSTEM OF COST ACCOUNTS.—Geo. K. Hooper, 31 Milk St., Boston, Mass. Paper, 3½ × 7 ins.; pp. 12.

The author discusses the various features that render desirable a thorough and analytical system of cost keeping, and claims his system will satisfy all requirements. No indication of the nature of the system is given.

TRACK BARROW.—The American Trackbarrow Co., Lowell, Mass. Paper, circular, 8 × 11½ ins.; and card 3½ × 6¼ ins.; illustrated.

The track barrow is a wheelbarrow for railway work, having a grooved wheel to run on the rail, but so placed that the man walks at the side of the rail. It has been described in our columns.

WATER-TUBE BOILERS.—Riverside Boiler Works, Ridgefield Park, N. J. Paper; 6½ × 10 ins.; pp. 16; illustrated.

The "Hogan" boiler has steam and water drums connected by bent tubes; it is made in two general styles, with drums either across or along the axis of the boiler. A number of testimonials are given in the pamphlet.

PNEUMATIC TOOLS.—Standard Pneumatic Tool Co., Chicago and Berlin. Paper; 4⅜ × 7¼ ins.; pp. 48; illustrated.

This is the German edition of the "Technical Library" being published by this enterprising company, a French edition having preceded it. It describes in German all the pneumatic tools and appliances manufactured by the Standard Pneumatic Tool Co.

SILENT CHAIN GEAR.—Link-Belt Engineering Co., Philadelphia, New York, Pittsburg and Chicago. Paper; 3½ × 6 ins.; pp. 29; illustrated.

In this little pamphlet the Renold high-speed silent-driving chains are illustrated and described in all their types and applications. The special merits of this form of chain and the principles on which it is designed were set forth in a paper published in our issue of Sept. 5, 1901.

STEEL WAGON WHEELS.—Electric Wheel Co., Quincy, Ill. Paper; 7½ × 9½ ins.; pp. 48; illustrated.

These wheels have broad steel rims, steel spokes of oval section and cast-iron hubs, and are intended for farm wagons and general hauling purposes. Special wheels for use in moving trees, horses, etc., are also shown. Wagons of different kinds are illustrated, and dimensions, weight and cost are given.

AIR COMPRESSORS.—Allis-Chalmers Co., Fraser & Chalmers Works, Chicago, Ill. Paper, 6 × 9 ins.; pp. 186; illustrated.

This is a companion to the same company's catalogue on Riedler pumps. It treats of air compressors and blowing engines of the Riedler type. The general make-up of the book is excellent. Tables of applicable information, index and telegraph code are included, as in the other catalogue referred to.

PUMPS.—Allis-Chalmers Co., Fraser & Chalmers Works, Chicago, Ill. Paper: 6 × 9 ins.; pp. 187; illustrated.

This is a complete catalogue of Riedler pumps, whose American manufacture is controlled by this company. The principles of action of this form of pump are fully discussed, and examples and illustrations of the application to different conditions are presented in large number. Tables of useful information, an index and a telegraph code make the catalogue complete.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
Feb. 12.	Building work	New Haven, Conn.	Feb. 13
Feb. 13.	Lumber	Chicago, Ill.	Feb. 13
Feb. 13.	Fire stations	Bloomington, Ill.	Feb. 13
Feb. 13.	Sewer	Buffalo, N. Y.	Feb. 6
Feb. 13.	Iron storehouses (3)	San Francisco, Cal.	Jan. 23
Feb. 14.	Railway	Portugal.	Dec. 12
Feb. 14.	Water-works and sewers	Ft. Fremont, S.C.	Jan. 16
Feb. 14.	Viaduct	Williamsport, Ind.	Jan. 23
Feb. 14.	Bridge	Wapakoneta, O.	Jan. 23
Feb. 14.	Road building (7½ miles)	Batavia, O.	Jan. 23
Feb. 14.	Gravel road	Williamsport, Ind.	Jan. 23
Feb. 14.	Stone sidewalks	Cincinnati, O.	Jan. 30
Feb. 14.	Iron castings	Boston, Mass.	Jan. 30
Feb. 14.	Bridge etc.	Oklahoma, Okla. Ter.	Feb. 6
Feb. 14.	Street lighting	Buffalo, N. Y.	Feb. 13
Feb. 15.	Water-works and sewers	Waynesville, N.C.	Feb. 13
Feb. 15.	Water-works and sewers	Fort Fremont, O.	Feb. 13
Feb. 15.	Paving	Gallipolis, O.	Feb. 6
Feb. 15.	Jail alterations	Jacksonville, Fla.	Feb. 6
Feb. 15.	Street cleaning	Galveston, Tex.	Jan. 30
Feb. 15.	High school	Boise, Idaho	Jan. 30
Feb. 15.	Steel work and Mach'ry	Washington, D.C.	Jan. 30
Feb. 15.	Building	Boston, Mass.	Jan. 23
Feb. 15.	School	West Concord, Minn.	Jan. 23
Feb. 15.	Court house and jail	Sibley, Ia.	Jan. 23
Feb. 15.	Auditorium	Omaha, Neb.	Oct. 3
Feb. 15.	Coaling plant	Bremerton, Wash.	Jan. 9
Feb. 17.	Widening bridge	London, Eng.	Dec. 26
Feb. 17.	Sewer outlets	Sault Ste. Marie, Ont.	Jan. 30
Feb. 17.	Electric lighting	Sullivan, Ill.	Jan. 30
Feb. 17.	Poor house	Sparta, Wis.	Jan. 30
Feb. 17.	Docks, locks, etc.	Bristol, Eng.	Feb. 6
Feb. 17.	Bridges	San Jose, Cal.	Feb. 6
Feb. 17.	Water pipe (2,375 tons)	Boston, Mass.	Feb. 13
Feb. 17.	Paving	Toledo, O.	Feb. 13
Feb. 18.	Building	St. Louis, Mo.	Feb. 13
	Advertised, Engineering News, Feb. 13.		
Feb. 18.	Highway bridge	Quincy, Mass.	Feb. 13
Feb. 18.	Iron bridges	David City, Neb.	Feb. 6
Feb. 18.	Tools, etc.	Mare Island, Cal.	Feb. 6
Feb. 18.	Paving	Bayonne, N. J.	Jan. 30
Feb. 18.	Sewage disposal works	Mount Vernon, N.Y.	Jan. 30
	Advertised, Eng. News, Jan. 30 to Feb. 20.		
Feb. 18.	Gravel road	Toms River, N. J.	Jan. 23
	Advertised, Eng. News, Jan. 23 and 30.		
Feb. 18.	Post office	Janesville, Wis.	Jan. 23
Feb. 19.	Bridges	Nebraska City, Neb.	Jan. 30
Feb. 19.	Paving	Cleveland, O.	Jan. 30
Feb. 19.	Sewers (28 miles)	Columbia, S. C.	Jan. 30
	Advertised, Eng. News, Jan. 30 and Feb. 6.		
Feb. 19.	Grading, etc.	Cohoes, N. Y.	Feb. 13
Feb. 19.	Buildings	Toronto, Ont.	Feb. 13
Feb. 19.	Sewer plans and specificat'ns	Abilene, Kan.	Feb. 13
Feb. 19.	Water department supplies	Cleveland, O.	Feb. 13
Feb. 20.	Building	St. Thomas, Ont.	Feb. 13
Feb. 20.	Court house	Sycamore, Ill.	Feb. 13
Feb. 20.	Water and sewer bonds	High Point, N. C.	Feb. 13
Feb. 20	Court house	Des Moines, Ia.	Jan. 30
Feb. 20.	Light-house repairs	Mobile, Ala.	Jan. 23
	Advertised, Eng. News, Jan. 23 and 30.		
Feb. 20.	Court house	Lufkin, Tex.	Jan. 23
Feb. 20.	Mechanical stokers	Kansas City, Mo.	Feb. 6
	Advertised, Engineering News, Feb. 6.		
Feb. 20.	Bridges	Cottonwood, Kan.	Feb. 6
Feb. 20.	Street improvements	Bowling Green, O.	Feb. 6
Feb. 20.	Water-Works	Mantua, O.	Feb. 6
Feb. 21.	Macadamizing	Cincinnati, O.	Jan. 30
Feb. 21.	Pumping machinery	Santa Ana, Cal.	Feb. 6
Feb. 21.	Paving	Cincinnati, O.	Feb. 13
Feb. 22.	Crushed stone	Vanwert, O.	Jan. 30
Feb. 24.	Court house	Newton, Tex.	Jan. 30
Feb. 24.	Paving	Barnesville, O.	Jan. 30
Feb. 24.	Bridge	Doylestown, Pa.	Jan. 30
Feb. 24.	Paving	Wabash, Ind.	Feb. 6
Feb. 24.	Paving, sewers, etc.	Peoria, Ill.	Feb. 6
	Advertised, Eng. News, Feb. 6 and 13.		
Feb. 24.	Sewerage system, etc.	Peoria, Ill.	Feb. 6
	Advertised, Eng. News, Feb. 6 and 13.		
Feb. 24.	Sewers	Barberton, O.	Feb. 6
Feb. 24.	Bridge superstructure	Cincinnati, O.	Feb. 6
Feb. 24.	Water mains, etc.	Peoria, Ill.	Feb. 6
	Advertised, Eng. News, Feb. 6 and 13.		
Feb. 24.	Water-works	Pontiac, Mich.	Feb. 6
	Advertised, Eng. News, Feb. 6 and 13.		
Feb. 24.	Pipe sewers	Council Bluffs, Ia.	Feb. 13
Feb. 24.	Court house	Newton, Tex.	Feb. 13
Feb. 24.	Building	Devil's Lake, N. Dak.	Feb. 13
Feb. 25.	School	Raymond, Minn.	Feb. 13
Feb. 25.	Sidewalks	Des Moines, Ia.	Feb. 13
Feb. 25.	Pumping engine, etc.	Freeport, Ill.	Feb. 13
	Advertised, Eng. News, Feb. 13 and 20.		
Feb. 25.	Armories (4)	Ottawa, Can.	Feb. 6
Feb. 25.	Bridge	Waterloo, Ia.	Feb. 6
Feb. 25.	Water pipe, castings, etc.	St. Louis, Mo.	Feb. 6
Feb. 25.	School	Monmouth, Ill.	Jan. 30
Feb. 25.	Tunnel	Boston, Mass.	Jan. 30
	Advertised, Eng. News, Jan. 30 to Feb. 20.		
Feb. 26.	Paving	Hoboken, N. J.	Jan. 9
Feb. 26.	Pumping station, etc.	Philadelphia, Pa.	Feb. 6
Feb. 26.	Electric plant	Fulham, Eng.	Feb. 13
Feb. 27.	School	Dayton, O.	Feb. 13
Feb. 27.	Arc lamps	Hudson, N. Y.	Feb. 13
	Advertised, Engineering News, Feb. 13.		
Feb. 27.	Court house and jail	Grand Island, Neb.	Feb. 6
Feb. 27.	Asphalt (1,200 tons)	Winnipeg, Man.	Feb. 6
Feb. 27.	Sewerage system, etc.	San Francisco, Cal.	Feb. 6
Feb. 27.	Bridge piers, etc.	Chicago, Ill.	Jan. 30
	Advertised, Eng. News, Jan. 30 to Feb. 20.		
Feb. 27.	Bridge	Saginaw, Mich.	Jan. 30
Feb. 27.	Range towers	Fort Monroe, Va.	Jan. 30
Feb. 27.	Water-works	Fort Wiley, Cal.	Feb. 6
Feb. 28.	Sewers	Salt Lake City, Utah.	Feb. 6
	Advertised, Eng. News, Feb. 6 and 13.		
Feb. 28.	Bridge superstructure	Rumford Falls, Me.	Feb. 6
Feb. 28.	Beacons, etc.	Buffalo, N. Y.	Jan. 30
	Advertised, Eng. News, Jan. 30 to Feb. 13.		
Feb. 28.	Water mains	Salt Lake City, Utah.	Feb. 6
	Advertised, Eng. News, Feb. 6 and 13.		
Mar. 1.	Electric plant, bonds, etc.	S. Brooklyn, O.	Jan. 30
Mar. 1.	Building	Boston, Mass.	Jan. 30
Mar. 1.	Paving, etc.	South Brooklyn, O.	Jan. 30
Mar. 1.	Hotel	Monaca, Pa.	Jan. 30
Mar. 1.	Beacons, etc.	Washington, D. C.	Jan. 30
Mar. 1.	Road machinery	New Zealand	Jan. 2
	Advertised, Eng. News, Jan. 2 to 16.		
Mar. 1.	Post office	Preston, Ia.	Jan. 16
Mar. 1.	Memorial hall	Rockford, Ill.	Jan. 23
Mar. 1.	School	Scottsville, Ky.	Jan. 23
Mar. 1.	Water-works	Northfield, W. Va.	Feb. 6
Mar. 1.	Opera house	Bluefield, W. Va.	Feb. 6
Mar. 1.	Sanitary sewer pipe	Marion, O.	Feb. 13
Mar. 1.	School	Racine, Wis.	Feb. 13
Mar. 1.	School	Ann Arbor, Mich.	Feb. 13
Mar. 1.	Paving brick	Savannah, Ga.	Feb. 13
Mar. 3.	Water-works	Mechanicsville, Ia.	Dec. 26
Mar. 3.	Water bonds	Baker City, Ore.	Jan. 23
Mar. 3.	Bridge	Castor, Va.	Jan. 23
Mar. 3.	Water-Works	Elizabeth City, N. C.	Jan. 30
Mar. 3.	Designs for monument	Philadelphia, Pa.	Jan. 30
Mar. 3.	Extending water-works	Amsterdam, N.Y.	Feb. 6
	Advertised, Eng. News, Feb. 6 to 27.		
Mar. 3.	Water-works	Marshall, Mo.	Feb. 13
Mar. 4.	Removing wreck	Buffalo, N. Y.	Feb. 6
	Advertising, Eng. News, Feb. 6 to 27.		
No date.	Crushed stone	Scranton, Pa.	Jan. 23
	Advertised, Engineering News, Jan. 23.		
No date.	Substation (elec. rys)	New Castle, Pa.	Feb. 6
"	Pumping engines	Cumberland, Md.	Feb. 6
"	Buildings	Toronto, Ont.	Feb. 6
"	Bridge substructures	Cranberry, N. C.	Feb. 6

RAILWAYS.

ALABAMA.—The Needmore Coal Co. will secure a right of way over the James Matthews estate for the line of railway from Bridgeport to the head of Doran's Cove, connecting with their coal mines, a distance of about eight miles.

ASHDALE & THOMSON.—This company has filed articles of incorporation in Illinois with a capital stock of $100,000, to build a road from Ashdale to Thomson, both in Carroll county. Burton Hanson, Wm. R. Morrison, Chicago, and E. W. Adams, Milwaukee, are interested.

BALTIMORE, PITTSBURG & WESTERN.—A bill has been introduced in the legislature of Maryland incorporating this company, which will build a line of railway from Baltimore to the Maryland and Pennsylvania boundary, near Emmittsburg, and for a line from Baltimore to a point on the Chesapeake Bay. The capital stock is $2,000,000. Francis A. Coffin, New York; Herbert S. Grant, Asheville, N. C.; W. C. Robinson, Baltimore, and Howard A. Cutler, Washington, D. C., are interested.

BESSEMER & LAKE ERIE.—It is stated that this road will be double tracked from Braddock, Pa., 10 miles up the Monongahela River, from Pittsburg, to Conneaut Harbor, O., on Lake Erie. The dock facilities at Conneaut Harbor are also to be extended. H. T. Porter, Ch. Engr., Pittsburg, Pa.

BISMARCK, WASHBURN & GREAT FALLS.—J. M. Dixon, Ch. Engr., Bismarck, N. Dak., informs us that the surveys and estimates for the line from Washburn to Coal Harbor have been made, but it is not decided at this time whether the construction will be started this year or not. The line between the points named will be 18½ miles long. W. D. Washburn, Pres., Minneapolis, Minn.

BRUNSWICK & BIRMINGHAM.—Announcement has been made that a construction company has been organized under the laws of New Jersey to finish this road. Construction work has been proceeding for several months. The road will have a total length of 450 miles, including projected branches, and will run between Brunswick, Ga., and Birmingham, Ala., 375 miles. Chas. L. Hyde, Pres.

CENTRAL ONTARIO.—Geo. Collins, Gen. Supt., Trenton, Ont., informs us that surveys will be started next summer for the line from Bancroft, Ont., to Whitney, a distance of 40 miles. J. D. Evans, Ch. Engr., Trenton.

CHESAPEAKE & OHIO.—This company has decided to make extensive improvements at Charlestown, W. Va., and at Cincinnati, O.

CHICAGO GREAT WESTERN.—The contract for grading the extension from Harlan, Ia., to Council Bluffs, has been let to Winston Bros. Work will begin early in the spring.

CHICAGO, INDIANAPOLIS & LOUISVILLE.—Arrangements are being made by W. H. McDoel, Pres., for the construction of 46 miles of new road to connect its main line with the Indiana coal fields.

CHICAGO, MILWAUKEE & ST. PAUL.—A. Frankman, of the contracting firm of Frankman Bros. & Morris, Minneapolis, Minn., is reported to have stated that the right of way for the line along the river shore between Muscatine and Davenport, Ia., has been secured and that the road will be of easy construction. These contractors are now doing considerable work at different points on the road, aggregating some $80,000.

EVERGREEN RY.—Application has been made by this company for an extension through the counties of Allegheny, Butler, Armstrong and Lawrence in Pennsylvania.

HAGERSTOWN, SMITHS & PEN-MAR.—James E. Hewes, Engr.-in-Charge, Hagerstown, Md., informs us that he is now engaged in making surveys and estimates for the proposed line, but nothing further can be done until the charter has been granted.

ILLINOIS.—Reports state that Joseph Leiter, Chicago, has purchased some 6,000 acres of land in Franklin county, Ill., where he will sink two coal shafts, and will let contracts in about three weeks for a line of railway 12 miles in length connecting the property with Benton, Illinois.

INDIAN RIVER RY.—D'Arcy Scott, of Ottawa, Ont., has applied to the Dominion Parliament for the incorporation of this company to build and operate a railway from a point on the existing railways, near the northern end of Lake Megantic, in the counties of Beauce and Compton, Quebec, thence southerly along the lake to a point near Riviere Marte.

KISHACOQUILLAS VALLEY R. R.—J. P. Gettes, Belleville, Pa., writes that the preliminary survey for the company's road has been completed, but nothing further has been done. The line will run from Belleville to Greenwood Furnace and McAleney's Fort, a total distance of 16 miles. W. J. Hayes, Pres., Belleville; F. F. Whittekin, Ch. Engr., Tionesta, Pa.

NEW ORLEANS & NORTHEASTERN.—A meeting of the stockholders will be held on March 5, when the advisability of increasing the capital stock and of issuing $1,000,000 in bonds for improvements will be determined.

NORTHERN PACIFIC.—The engineering department is now at work on plans for shops, dock and terminal improvements in Duluth, Minn., to cost about $1,000,000. W. J. Darling, Ch. Engr., St. Paul, Minn.

OKLAHOMA & TEXAS SOUTHERN.—W. A. Squires, Pres., Montague, Tex., writes us that contracts will be let on April 15 for the construction of 100 miles of line for this company. Surveys for that distance have been made, and the funds to carry out the work are provided for. The line will be 350 miles in length. McKeon Johnston, Ch. Engr., Stephenson, Tex.

PENNSYLVANIA R. R.—The company is planning to eliminate several tunnels in the Pittsburg district. Those on the Panhandle in Pittsburg are also under inspection and may be cut out.

PHOENIX & EASTERN.—Yuma (Ariz.) papers quote F. M. Murphy, Pres. Development Co. of America, as stating that a preliminary survey for the line to be built by this company from Phoenix to Benson is completed and that grading will soon be commenced.

ST. LOUIS & SOUTHWESTERN.—This company, it is understood, will shortly issue $20,000,000 in bonds. About $3,000,000 will be used for betterments and improvements.

SOUTHERN RY.—This company is said to have authorized extensive improvements during the present year on the Memphis Division and the Northern Alabama. On the first named some 4,000 tons of new 75-lb. steel rail will be laid between Corinth and Memphis, Tenn., aggregating 35 miles, at a cost of about $125,000; the Sheffield shops, at an estimated cost of $105,000; several tanks, passing tracks, new metal bridges, new pier and draw span at Decatur bridge over the Tennessee River, and many other improvements, the approximate cost of which will aggregate $300,000. On the Northern Alabama, between Sheffield and Parrish, the improvements authorized, consisting of new section houses, trestles, ballasting, side tracks, etc., will aggregate $57,000. Work on the Memphis Division has already been started. The track laying will begin about March 1. The Northern Alabama improvements will be announced some time this month. W. H. Wells, Engr. of Construction, Washington, D. C.

SOUTHERN PACIFIC.—The contract for the cut-off between El Paso, Tex., and Straus has been let to the Nelson Construction Co., recently organized in El Paso. The contract calls for the removal of about 1,000,000 cu. yds. of material at a cost of $700,000, reducing the grade between El Paso and Straus from 52 to 31 ft. to the mile. Work will be started soon with about 1,500 men and 600 teams. The construction company is capitalized at $50,000, and George Nelson, B. F. Hammett, Jr., and Chas. L. Betterson, of El Paso, Tex., are interested. A. M. Bleienfeld, Asst. Engr. Southern Pacific, will have charge of the work.

TILSONBURG, LAKE ERIE & PACIFIC.—Application to Parliament has been made for permission to build an extension from Ingersoll, Ont., to the Georgian Bay. John H. Teall, Gen. Mgr., Tilsonburg, Ont.

WADLEY & MOUNT VERNON.—The Secretary of State of Georgia has granted an amendment to the charter of this company, permitting the construction of an extension from Rixeville, Ga., to Valdosta, a distance of 200 miles. The proposed extension will traverse the counties of Emanuel, Montgomery, Laurens, Dodge, Telfair, Wilcox, Coffee, Irwin, Berrien, Clinch and Lowndes. T. F. James, Pres.; T. J. James, Jr., Supt., Adrian, Ga.

WOODWARD & QUANAH.—A territorial charter has been granted to this company in Oklahoma to build and operate a road from Woodward by way of Magum to Quanah, Tex. The capital stock is $1,000,000. The principal place of business is Woodward. Geo. W. Carr, John J. Gerlach and W. W. Carter, Woodward, are incorporators.

STREET AND ELECTRIC RAILWAYS.

BIDDEFORD, ME.—The directors of the Biddeford Pool Electric Ry. have made application to the railroad commissioners for the approval of its charter. The company is capitalized at $80,000, and will build a line from this city down the Pool road across the Peninsula to the Point, where it terminates. A site for the car barns, power house, etc., has been selected. Chas. M. Moses, Dr. Wm. J. Maybury and Edgar A. Hubbard are directors.

LACONIA, N. H.—The Laconia St. Ry. will ask the Supreme Court for a charter to extend its line to Tilton, Franklin and Penacock; also to change the tracks to standard gage.

SOUTH HADLEY FALLS, MASS.—The Hampshire St. Ry. Co. has been granted a franchise by the selectmen to lay tracks from this place to the boundary line of Granby, about 22,000 ft. The company will begin operations as soon as the weather permits.

CHERRY CREEK, N. Y.—The village board has granted a franchise to the Salamanca & Little Valley St. R. R. for a line through this village, and work on the surveys will begin at once.

EAST AURORA, N. Y.—It is believed that the Buffalo, Gardenville & Ebenezer Electric Ry. Co. will extend its trolley line here this spring. The franchise was granted last fall. C. G. Puhl, Ch. Engr., Gardenville.

NEW YORK, N. Y.—The Jersey City & New York Ry. Co., which proposes to complete the unfinished North River tunnel, has purchased property bounded by 10th, Hudson, Greenwich and Christopher Sts., which will be utilized for the main terminal station for the tunnel. About 4,000 ft. of the tunnel is already built, and there remains some 1,600 ft. to construct. Chas. M. Jacobs, Ch. Engr. Pennsylvania-New York Extension Ry. Co., states that the remaining section will be the most difficult to construct, as it passes through a ledge of rock that pierces the river bed.

ROCHESTER, N. Y.—Authority has been granted by the state railroad commission to the Monroe County Electric Belt Line Ry. Co. for permission to use the overhead trolley system in operating its lines. Permission was given to construct the road last December. Geo. W. Aldridge, J. Breck Perkins and Ira M. Luddington are interested.

TROY, N. Y.—The Troy Terminal R. R. Co. has been organized for the purpose of building and operating a railway to be operated by electricity from Adams St. through Fleet St. to the state dam, a distance of two miles. The capital stock is $200,000. Edward F. Murray, Frank A. Black and C. V. Collins are interested.

CAMDEN, N. J.—The Pennsylvania R. R. Co. will erect a new power house at the foot of Federal St., to be 131 × 87 ft., to furnish heat, light and power.

CAMDEN, N. J.—The Burlington County Traction Co. has been incorporated with a capital stock of $225,000 to build and operate a trolley road from Moorestown to Mount Holly and from there to Burlington. The horse car line over the main street of Mount Holly has been purchased. The completed line will connect with the Camden & Suburban Ry. at Moorestown, giving a continuous line from Camden.

JERSEY CITY, N. J.—It is stated that Sterns & Silverman, of Philadelphia, the promoters of the plan to connect the Trenton & New Brunswick Ry. and Trenton with all points between that city and New Brunswick, have bids for the work, and announcement of the awarding of the contract will be made at an early date. The work of construction will be started as soon as the weather permits.

HARRISBURG, PA.—The Bellefonte Electric Ry. Co. has been chartered with a capital stock of $30,000. The road will run from Milesburg to Bellefonte, thence by way of the Kishocoquillias turnpike to either Axelman or Boiling Spring. E. C. Poor, Pres., Tyrone.

PITTSBURG, PA.—J. D. Callery, Pres. Pittsburg Rys. Co., has been authorized by the directors to expend $2,000,000 for the improvement of the company's service. Part of this sum is to be used for the purchase of 200 new cars, to be ordered this week. The relaying of tracks with new rails, the extension of present lines, improvements and extensions to the power houses, etc., will comprise the work contemplated.

ANNAPOLIS, MD.—A bill has been introduced to incorporate the Baltimore, Annapolis & Bayside Ry. Co., with capital stock of $10,000, which is to build and operate an electric railway from Curtis Bay, connecting with the United Ry. system and running thence to Annapolis and Bay Ridge. Branch lines in Anne Arundel county will also be built. A bridge may be built over the Severn. John F. Williams, Henry A. Basford and Wm. N. Woodward are interested.—Another bill has been introduced in the legislature to amend the charter of the Baltimore & Potomac R. R., authorizing it to construct and operate one or more branches in the state to the District of Columbia.

JEFFERSON, MD.—Reports state that the Frederick & Jefferson Electric Ry., Light & Power Co., capitalized at $125,000, has applied for incorporation to build a road through one of the most prosperous sections of Frederick county. Lewis A. Whip, Milton G. Rice and H. F. Ditmar are interested.

RICHMOND, VA.—The council has approved of an ordinance to permit the Richmond Traction Co. to extend its tracks northwardly along 25th St. to M St., thence to 31st St. and to Q St.

MOUNDSVILLE, W. VA.—A. J. Jones, Secy. Citizens Electrical Ry. Co., Moundsville, writes that contracts will be let in about two months for the construction of from 10 to 25 miles of electric railway. The rights of way, etc., have been obtained, and the capital is now being secured. C. A. Weaver, Pres. The chief engineer is not yet appointed.

AUSTERLITZ, KY.—Geo. W. Clay, of this place, writes us that the proposed electric railway between North Middletown and Lexington, Ky., is progressing nicely. The road will be 24 miles long, and may be built further to Owingsville and Mt. Sterling.

GLASGOW, KY.—The Glasgow & Burksville & Cumberland Valley Traction Co. has filed articles of incorporation, increasing its capital stock from $10,000 to $500,000. The purpose of the road will be to build an electric road from Glasgow to Burksville by way of Summer Shade and Edmunston, a distance of 40 miles. The new road will pass through one of the finest sections of timber and agricultural land in Kentucky, running through the Marrowbone Valley of Cumberland county and into the Cumberland River bottoms surrounding Burksville. J. W. Jones, Glasgow; W. P. Dickerson, Newport, and James I. Alexander, Marrowbone, are incorporators.

CINCINNATI, O.—Dr. Samuel F. George, of Dayton, Pres., Ft. Wayne, Dayton & Cincinnati Traction Co., and H. G. Kerns, Gen. Supt., are preparing to organize a construction company, with $1,000,000 capital stock, to construct the company's road, which will have 400 miles of double track. The construction company will be known as the Union Construction Co. The plans for construction have already been completed, and a part of the work has been started, but abandoned temporarily on account of the weather. As soon as the spring opens it will be continued.

LAKEWOOD HAMLET, O.—Work on the electric railway to be constructed between Cleveland and Akron will be commenced at once. R. J. Wood, Engr.

INDIANAPOLIS, IND.—Emmet M. Smith, Vice-Pres. Indianapolis & Western Traction Co., Indianapolis, writes that the contract for the construction is now in the hands of the Smith Construction Co., and some track is already laid and work on the remaining is getting well along. The road to Plainfield will be ready for operation by May 15. The line will run from this city to Plainfield and to Danville, having a length of 24 miles.

LAFAYETTE, IND.—Wm. C. Mitchell, Pres. Lafayette & Indianapolis Rapid Ry., Lafayette, writes that the survey is being made for the line to be built by his company, and the rights of way are now being secured. No contracts have yet been made for furnishing the capital, but that matter is now under consideration. Funds for the surveys and for the purchase of rights of way are obtained. Contracts for construction will be let as soon as possible after the work of surveying and securing the rights of way is completed. The line will be 70 miles in length.

MUNCIE, IND.—L. J. Schlesinger, Gen. Mgr., Muncie, Hartford & Ft. Wayne Ry. Co., writes that contracts have been placed as follows: Track and line work, Chase Construction Co., Detroit, Mich., 10 miles already graded; ties, Union City Lumber Co., Union City, Mich.; poles, Valentine-Clarke Co., Chicago; rails, Carnegie Steel Co.; electric work, General Electric Co.; cars, Stephenson Co., Peckham trucks; engines, C. & G. Cooper, Mt. Vernon, O.; boilers, Stirling Co.; aluminum, Pittsburg Reduction Co.; trolleys, National Conduit & Cable Co. The work of making surveys and securing rights of way has been completed, the capital stock is provided for, and the balance of the contracts will soon be awarded. The completed line will be 27 miles long, touching at Muncie, Royerton, Shideler, Eaton, Hartford City and Montpelier. S. M. Hexter, Pres.; E. P. Roberts & Co., Engrs., Cleveland, O.

SPRINGFIELD, ILL.—Plans are being prepared for the straightening of the tracks of the Springfield Consolidated St. Ry. to the state fair grounds, and to do away with the crossing at the rolling mills.

MARENGO, IA.—The citizens of this place have voted a franchise to the Marengo & Cedar Rapids Electric Ry. J. W. Conn, Belle Plaine, writes us that most of the rights of way have been secured and also a franchise in Cedar Rapids. For 16 miles the road will run over a comparatively level country and for 14 miles over rolling country, although no extensive grades will be encountered. The distance between Marengo and Cedar Rapids is about 30 miles. Extensions are contemplated beyond Marengo for a distance of from 40 to 50 miles. Henry Bennett and W. S. Booth, Cedar Rapids, are associated with Mr. Conn.

ST. PAUL, MINN.—The Minnesota Midland Electric Ry. Co., capitalized at $100,000, will build an electric line from Little Falls to the east line of Morrison county, and one from that city to the south line of the county.

OKLAHOMA CITY, OKLA.—A territorial charter has been granted to the Metropolitan R. R. Co. of this city to construct and operate an electric street line 15 miles in length. The capital stock is $500,000. W. W. Storm, John Threadgill and S. T. Alton, Oklahoma City, are interested.

GRAND JUNCTION, COLO.—Truman H. Ketchum, Cy. Clk., writes that the city purchased the street car line and franchise last March and will improve and extend the lines as the growth of the city demands.

SEATTLE, WASH.—The Seattle Electric Co. has asked the council for franchises for new lines of street railway and for certain concessions, and will in return expend something like $1,000,000 within the next year on improvements.

LOS ANGELES, CAL.—The contract for grading the Huntington-Hellman Long Beach Electric Ry. has been let to Robert Sherer. The route will be from Washington St. to Long Beach city limits at American Ave., tapping Compton en route. The contract stipulates that work shall be completed within 60 days after Feb. 1, and the contractor has put 250 teams on the grading. The contract for bridging has been let to J. D. Mercereau. The line will be laid with 60-lb. steel and will be 17 miles long. It is estimated that the completion of the work will cost $1,000,000. The company plans to begin operations by Jan. 1, 1903. Henry E. Huntington and associates are the promoters.

OAKLAND, CAL.—The Bay Counties Power Co. will take steps to install a complete power storage plant in connection with the transformer station at the Piedmont power house for running the local lines in case of interruption in the current.

MONTREAL, QUE.—The Three Rivers & North Shore Electric Ry. is applying through Greenshields & Heucher, of Montreal, for authority to extend its road from Three Rivers, Que., to Shawingan Falls, a distance of 25 miles, and to change the original name to that of the St. Maurice Electric Ry., and also to change the gage to standard.

VANCOUVER, B. C.—J. A. Christie is quoted in local papers as saying that every preparation is being made for the construction of the Klondike Mines Ry., and that $260,000 of the requisite $500,000 has been secured.

ELECTRIC LIGHT AND POWER.

LYNN, MASS.—Bids for wiring the post office building for electric lighting were received as follows: Edwin C. Lewis, Boston, $1,449; Hawks Electric Co., Boston, $1,370; Gilson & Hatch, Lynn, $1,270; Campbell & Co., Boston, $1,255; Sampson & Allen, Lynn, $1,216; J. Buchanan & Co., New York, $1,133; J. A. Cameron, Gloucester, $999.

BUFFALO, N. Y.—Bids are asked until Feb. 14 for lighting the streets with gas and electricity. Francis G. Ward, Comr.

EAST ISLIP, N. Y.—A mass meeting has voted in favor of a street lighting district, and a petition has been forwarded to the selectmen asking them to lay out the same.

HUDSON, N. Y.—Bids are asked until Feb. 27 for furnishing 111 arc lamps of 1,200 c. p. for a period of one, three or five years, as stated in our advertising columns. W. S. Hallenbeck, Cy. Clk.

OGDENSBURG, N. Y.—It is reported that there is a project for establishing a company for the transmission of electric power from Massena to this city and its disposal to manufacturers.

OVID, N. Y.—The question of the purchase of the electric light plant by the village may be submitted to the voters at the coming election.

SANDY CREEK, N. Y.—The Charles Lux Co., of Clyde, has been looking up the titles to real estate along the Salmon River, preparatory to the establishment of their power plant at Salmon Falls.

UTICA, N. Y.—Robt. E. Horton, of Utica, N. Y., is reported as making surveys to locate water power rights in the Adirondack Mountains.

ANNAPOLIS, MD.—Plans have been prepared for a central heating and lighting plant for all the state buildings in this city. It is estimated that the heating and lighting plant and elevators for the Court of Appeals and State Library Building will cost about $200,000.

WOODSBORO, MD.—Reports state that J. W. Le Gore, owner of the lime mills north of this village, proposes to construct a dam across the Monocacy River to supply power for operating an electric plant.

FAYETTEVILLE, N. C.—The city light committee, John A. Oates, Chn., has been instructed to get bids for all necessary material for constructing a line and putting in lights for municipal electric lighting.

WILMINGTON, N. C.—The Electrical Supply & Construction Co., of this city, recently chartered, with a capital of $25,000, has organized as follows: J. W. Williamson, Pres.; J. Frank, V.-Pres.; T. R. Cooper, Secy. and Treas.

COLUMBUS, GA.—At the annual meeting of the Chattahoochee Falls Co., George J. Baldwin, Savannah, Ga., was elected president. It is said that it is the intention of the company to develop its water power near this city as early as possible.

BIRMINGHAM, ALA.—The Warrior River Power Co., recently incorporated, with a capital stock of $500,000, will wish to install turbine wheels and electrical machinery for the transmission of 5,000 HP. Three units of 3,000 HP. are to be installed, two of which are to be used at once. Robert R. Zell, Pres. Southern Industrial Co., 203 McGowan Bldg., Birmingham.

COLUMBIA, ALA.—This place is considering the electric lighting question.

NEW ORLEANS, LA.—Bids are asked until March 24 for constructing a system of electric lighting and operating the same for ten years, at the end of which time plant is to come into the possession of the city. V. Tujague, Comptroller.

SEWANEE, TENN.—Plans have been drawn for an electric light plant in this place.

VERSAILLES, KY.—The contract for street lighting has been renewed with the Versailles Electric Light Co. for two years at $90 per arc light per year.

AURORA, IND.—It is proposed to build a plant and water-works. Address Mayor Downey and Councilman Stadt.

CAMBRIDGE, IND.—The council committee on the electric light plant has a plan for increasing the capacity of the commercial circuit by 200 lights.

ALBION, MICH.—Reports state that John Groff and G. A. Carver, of the board of public works, and F. W. Culver, Cy. Clk., are investigating the matter of building an electric plant. The question of issuing bonds will soon be voted on.

ESCANABA, MICH.—Press reports state that the council is considering a proposition to sell the electric light plant to outside capitalists for $70,000.

HAMILTON, MICH.—Outside capitalists have been investigating regarding the locating of a stone and steel dam across the Rabbit River at this place.

SAGINAW, MICH.—Several of the heaviest users of electricity in this city are organizing a company for the purpose of constructing a high-grade plant to furnish commercial lighting for the business districts. W. G. Emerick is said to be interested.

CHIPPEWA FALLS, WIS.—The council has authorized the employment of an electrician to furnish estimates on the cost of erecting a new lighting plant and system.

PLAINFIELD, WIS.—It is reported that an electric light plant is to be built in the Stark & Skeel grist mill. The plant will furnish electricity for lighting the city.

WAUKESHA, WIS.—At a recent mass meeting a resolution favoring municipal ownership of a lighting plant failed to pass.

EAGLE GROVE, IA.—This place is to have an entire new system of street lights.

EAST DUBUQUE, IA.—Resolutions were adopted at a recent mass meeting protesting against the granting of an electric light franchise and declaring in favor of an investigation into the possibilities of municipal ownership of an electric plant.

WARREN, MINN.—A committee has been appointed to ascertain the probable cost and best method of securing electric lights, paved streets and other modern improvements for the city. J. E. Ostrom is a member.

WELLINGTON, KAN.—A. B. Cheever, Cy. Clk., writes us that the city will build an electric plant as soon as the plans are prepared. Pop., 4,245. C. L. Roberts, Cy. Engr.

LINCOLN, NEB.—The Nebraska Central Irrigation Co. has made application for twice as much water from the Loup River as it is now using. The company proposes to transmit power to this city from a plant located near Columbus. It is estimated that the proposed plant will cost about $900,000. H. E. Babcock is the president of the company.

ROLLA, MO.—This place has voted $3,000 worth of bonds for the improvement of the electric light plant.

SAN ANGELO, TEX.—According to reports, the Concho Water Power Co. is soon to begin constructing its proposed plant. The dam is to be a combination steel and stone structure laid in hydraulic cement. C. B. Metcalfe is the General Manager.

SEATTLE, WASH.—The board of public works has made a report regarding the probable cost of a municipal lighting plant. Three different sites for the plant were considered. These were Lake Union, Cedar River Falls and Maple Valley.

SAN LEANDRO, CAL.—The supreme court has upheld the validity of bonds issued by this place for the establishment of a municipal electric plant.

MT. BULLION, CAL.—Reports state that the Mariposa Electrical Co. will commence work on their dam about Feb. 15. The dam is to furnish the power for operating an electrical plant.

TUCSON, ARIZ.—The Electric Light & Power Co. is to make improvements which will amount to $25,000, according to reports.

TORONTO JUNCTION, ONT.—The electric light system in this place is to be rebuilt and the necessary changes made for the establishment of a uniform arc system of 100 lights. Address Chief Engineer Burgess.

WINNIPEG, MAN.—A by-law providing for the issue of $50,000 fire, street and electric light debentures was defeated at a recent election.

BRIDGES.

QUINCY, MASS.—A highway bridge, designed for two electric railroad tracks, wagon way and foot way, will be built at Quincy Point, connecting this city with the town of Weymouth, crossing the Weymouth Fore River. The work comprises a 270-ft. draw span, with steel approach spans, and earth and masonry approaches. Bids will be received by the board of Norfolk county commissioners at Dedham, Mass., until Feb. 18. P. S. Hildreth, of the firm of Hildreth & Co., 32 Broadway, New York, is the consulting engineer.

PORTAGE, N. Y.—It is rumored that the Erie R. R. will rebuild the bridge at this place. C. W. Buchholz, Ch. Engr., New York.

PORT HENRY, N. Y.—The draw in the Rutland R. R. bridge across Lake Champlain was burned Feb. 7.

ROCHESTER, N. Y.—It is reported that an appropriation will be made for a bridge over the canal at Meigs St.

HACKENSACK, N. J.—Plans are being prepared by the N. Y. S. & W. R. R. for a steel bridge over the tracks at Prospect Ave., Hackensack Heights. Geo. W. Dowe, Supt.

BLOOMSBURG, PA.—Viewers have been appointed to report as to the right of the state to replace two bridges over Catawissa Creek at an estimated cost of $16,000 for both.

DOYLESTOWN, PA.—Bids are asked by the county commissioners until March 10 for building a new stone arch bridge at Ocheys Mill, in Milford township.

LAWRENCEVILLE, PA.—It is rumored that the New York Central R. R. will build a bridge across the Tioga River, dyke the Tioga and Cowanesque Rivers and make other improvements in this borough.

NEW CASTLE, PA.—An ordinance has been passed by the select council for the erection of a viaduct with a span of over 900 ft. across the Shenango River.

NORRISTOWN, PA.—Wm. H. Dechant, of Reading, Pa., has been awarded the contract by the P. & R. R. R. Co. for constructing the substructure of a double-track steel bridge, to be 1,600 ft. long across the Schuylkill River at the foot of Cherry St. The steel work will be erected by the Phoenix Iron Co.

PITTSBURG, PA.—The following bids were received on Feb. 5 for constructing the Lincoln Ave. bridge: superstructure, American Bridge Co., $70,000, extra steel per pound, 4 cts. (awarded contract); King Bridge Co., $75,000, extra steel per pound, 4¼ cts.; Fort Pitt Bridge Co., $75,459, extra steel per pound, 4¼ cts.; Penn Bridge Co., William Farris, Cont'g Agt., 842 Sheridan St., $79,585, extra steel per pound, 5 cts. Substructure, Cronin & O'Herron, $73,000, extra Portland cement concrete per cu. yd., $12.50 (awarded contract); Geo. F. Eagan, $76,573, extra concrete per cu. yd., $8; Fogle & Francey, $77,698, extra concrete per cu. yd., $7.50; Stratton, Lewis & Co., $79,000, extra concrete, per cu. yd., $5.50; Booth & Flinn, Ltd., $79,800, extra concrete per cu. yd., $9.50; Keeling, Ridge & Co., $82,100, extra concrete per cu. yd., $6.75; C. M. Diver, $83,000, extra concrete per cu. yd., $6.

SANDT'S EDDY, PA.—The Lehigh & New England R. R. has decided to construct a bridge across the Delaware River at this place.

SCOTT, PA.—The King Bridge Co., Cleveland, O., has been awarded a contract at about $60,000 for erecting a 600-ft. steel viaduct across George's Run for the Wabash R. R. extension into Pittsburg.

SEWICKLEY, PA.—Reports state that the contract has been awarded for a 45-ft. steel and masonry bridge across Possum Hollow Creek.

TOWANDA, PA.—Petitions are being prepared asking that the state rebuild the Rockwell and Masontown bridges across Towanda Creek.

WEST CHESTER, PA.—The grand jury has approved the report of the viewers recommending the construction of an inter-county bridge across the Schuylkill River near Sanatoga Station, at a cost of about $25,000.

WILKESBARRE, PA.—The street committee has reported a resolution granting permission to the Lehigh Valley R. R. to construct an iron bridge over Scott St. to replace the present structure.

OAKLAND, MD.—A bridge will be erected over the north branch of the Potomac River at a cost of $4,000, jointly by this county and Mineral county, W. Va.

WASHINGTON, D. C.—A bill has been introduced in the Senate providing for the reconstruction of the Aqueduct bridge at a cost of $800,000.

FAIRMONT, W. VA.—Five spans of the wooden bridge across Buffalo Creek were destroyed by the recent flood, and the bridge will be replaced with an iron structure.

JACKSONVILLE, FLA.—The board of public works and the railroads are still considering the question of building a new steel or stone viaduct at Bridge St. to replace the present structure.

BARDSTOWN, KY.—It is proposed to construct bridges across Rolling Fork and Beech Fork Rivers in the vicinity of Boston which will cost $10,000 or $12,000 each.

BELLEFONTAINE, O.—A resolution has been passed by the council for reconstructing the bridge across the railroad tracks at Sandusky Ave.

GALLIPOLIS, O.—It is reported that the county will build a bridge across Kyger.

TOLEDO, O.—A petition has been received by Mayor Jones asking that efforts be used to secure the construction of a foot bridge on the proposed Toledo Terminal Co.'s railroad bridge across the Maumee River.

INDIANAPOLIS, IND.—Plans are being prepared by the city engineer for three alternative designs for the bridge to replace the wrecked structure at West Washington St. These designs are for a stone arch bridge, a Melan concrete-steel arch bridge and a steel plate girder bridge. The length will be about 450 ft., with five spans. The erection of the new bridge will necessitate the removal of the old covered wooden bridge which carries the "National" road across the river at a sharp angle with the Washington St. bridge. This wooden bridge is now used only by pedestrians. When the plans for the new bridge are complete proposals will be advertised for. J. B. Nelson, Cy. Engr.

MICHIGAN CITY, IND.—Reports state that the Michigan Central R. R. will build a new three-track 200-ft. bridge across the harbor to replace the present structure.

ALLEGAN, MICH.—The board of supervisors has adopted a favorable report on the petition of the Southern Michigan Traction Co. to construct a bridge across the Kalamazoo River at Plainwell.

DETROIT, MICH.—An appropriation of $5,500 is asked for a new bridge at the upper end of Belle Isle.

DAVENPORT, IA.—The American Bridge Co. has submitted a bid at $1,563 for constructing a bridge at Warren St.

NEBRASKA CITY, NEB.—Bids are asked until Feb. 25 for the construction of all new bridges for York county for 1902. C. C. Boslan, County Clerk.

CODY, WYO.—The C., B. & Q. R. R. Co., Chicago, Ill., will build a new bridge over the Shoshone River, near Cody, a steel wagon bridge at Irma, and another structure at the Horton Crossing.

CROOKSTON, MINN.—The county commissioners have decided to construct steel bridges at Crookston, Mallory and East Grand Forks. The Minneapolis Iron & Bridge Co. has been awarded the contract for the Mallory bridge.

MILES CITY, MONT.—County Surveyor Schutz has made soundings for the center pier of the proposed bridge across the Yellowstone River.

ARLINGTON, WASH.—It is proposed to build a steel and wood bridge on concrete piers which will have a main span of 210 ft., with a 50-ft. span on each side.

LOS ANGELES, CAL.—J. D. Mercereau has been awarded a contract for the bridge work on the Long Beach line of the Huntington Electric R. R.

MARYSVILLE, CAL.—It is reported that the Southern Pacific R. R. will construct a wagon bridge with the railroad bridge at Knights Landing.

SAN JOSE, CAL.—Bids are asked until Feb. 17 for the construction of a combination "A" bridge over Stevens Creek. Henry A. Pfister, Clerk.

OGDEN, UTAH.—C. R. Hollingsworth, County Clk., writes us that A. F. Parker, Cy. Engr. of Ogden, has been engaged to prepare plans and specifications for a new steel bridge over the Weber River, west of Ogden. Jos. Stanford, Chn. County Comrs., Ogden.

ROCHESTER, ONT.—A petition is being circulated asking that a bridge be constructed across the canal at Concession St.

TORONTO, ONT.—City Engineer Rust has submitted a plan for the proposed Yonge St. bridge, at an estimated cost of $195,000, of which amount $100,000 will be for land damages.

NELSON, B. C.—The Canadian Pacific R. R. intends to construct a stone and steel bridge across the Kootenay River about four miles from this city, a steel bridge with stone abutments at the Slocan crossing and improvements on the bridges on the Columbia & Kootenay Ry.

NEW WESTMINSTER, B. C.—It is stated that the Dominion Bridge Co., Montreal, submitted the lowest bid at $411,000 for constructing the superstructure of the combined railway and traffic bridge over the Fraser River at this place. Bids were received from McLean Bros., Armstrong & Morrison, of Vancouver; Poupore & McVey, of Nelson; Bain & Co., New Westminister; Hamilton Bridge Co., Albion Iron Works, Victoria; Puget Sound Bridge & Dredging Co., Seattle; San Francisco Bridge Co. and others.

BUILDINGS.

RUTLAND, VT.—The new station for the Rutland R. R., upon which work will be started next month, will cost $150,000.

BOSTON, MASS.—The Congress St. Associates, with W. H. Aspinwall, R. S. Codman and A. H. Bullock, trustees, has secured the property at 40-50 Congress St. and 7 to 13 Exchange Place for the erection of an office building.

BOSTON, MASS.—The Beacon Boulevard Hotel trust has been organized by the firm of Edward T. Harrigan & Co. for the purpose of building a $650,000 hotel in Brookline. It will be 10 stories, 270 × 40 ft. The building will be provided with an electric plant, a refrigerator plant and ice machine, and three elevators.——Hartwell, Richardson & Driver, Archs., have prepared plans for an 11-story building to be erected on Tremont St. by the heirs of Andrew Carney.——John D. Rockefeller has decided to give $1,000,000 towards the establishment of the new Harvard Medical School, for which a donation of $1,000,000 was made by J. Pierpont Morgan last June. Three buildings will be erected.

WOONSOCKET, R. I.—The council will be asked to appoint a commission of citizens for the purpose of selecting a site and erecting a city hall, to cost not more than $80,000.

BRIDGEPORT, CONN.—The state board of railroad commissioners have approved plans for the new station and tracks to be built by the New York, New Haven & Hartford R. R. here, at a cost of $3,000,000.

GREENWICH, CONN.—Robert M. Bruce will build a number of one-story buildings here to be used as a hospital for the treatment of contagious diseases.

NEW HAVEN, CONN.—Bids are asked until Feb. 14 for finishing the second and third stories in the Power Bldg. of the Boardman Manual Training School. G. T. Hewlett, Clk. Bd. Education.

BUFFALO, N. Y.—David G. Alsopp, of Philadelphia, has purchased the property at Main and North Division Sts. and will erect an office building.

NEW YORK, N. Y.—Wm. R. Finn, who purchased the property at Broadway and Great Jones St., is having plans prepared for a 10-story building to be erected on the plot.——The Federal Senate has passed a bill appropriating $2,500,000 for a new post office building in this city.——Plans have been filed for alterations and additions to the St. Francis de Sales Roman Catholic Church in 96th St., to cost about $100,000. George H. Streeton, Arch., 298 Fourth Ave.

NEW YORK, N. Y.—Plans have been filed by A. M. Margenroth, 135 Hayward St., Brooklyn, for two 7-story apartment houses, 75 × 86 ft., in 95th St., to cost $500,000. Schneider & Herter, Archs., 46 Bible House; by Klaw & Erlanger, 1434 Broadway, for a 7-story theatre, 150 × 99 ft., at 207-09 West 41st St., to cost $500,000. Herts & Tallant, Archs., 32 East 28th St.; John Jacob Astor, Rhinebeck-on-Hudson, for a 9-story brick annex to hotel, 25 × 82 ft., to cost $130,000. Trowbridge & Livingston, Archs., 424 Fifth Ave.; by Adolph Freund, 476 Third Ave., for a 6-story brick tenement, 75 × 145 ft., in Webster Ave., to cost $125,000; by P. Braender, 47 West 125th St., for 10-story brick loft, 20x92 ft., at 36 East 10th St., to cost, $85,000. F. C Browne, Arch., 143 West 125th St.

PORT WASHINGTON, D. C.—The Manhasset Bay Yacht Club has authorized the expenditure of $30,000 to build a new house and improve the property in this village. Hoppin & Koen, Archs.

YONKERS, N. Y.—The library committee of the board of education has plans for the $50,000 Carnegie Library to be erected in Washington Park. Edwin A. Quick & Son, Archs.

PATERSON, N. J.—Fire swept the city on Feb. 9 laying waste to an area equal to 25 city blocks and entailing a loss estimated at from $6,000,000 to $8,000,000. Preliminary estimates of individual losses have been given as follows: City Hall, $450,000; First National Bank, $100,000; Second National Bank, $60,000; Paterson National Bank, $75,000; Hamilton Club, $150,000; Katz Bldg., $65,000; Garden Theatre, $50,000; United States Hotel, $40,000; Public Library, $100,000; Quackenbush & Co., department store, building and contents, $500,000; First Baptist Church, structure and furniture, $75,000; Paterson High School, building and contents, $35,000; Old City Hall, used for police headquarters, $15,000; The Boston department store, Meyer Brothers, proprietors, building and stock, $800,000; the "Evening News," building and plant, $65,000; Y. M. C. A. building, $15,000; Paterson & Passaic Gas & Electric Co., $25,000; St. Marks Church, building and contents, $27,000; St. Mary's Parochial School, $10,000; Park Avenue Baptist Church, building and furnishings, $40,000; St. Joseph's German Catholic Church, building and furnishings, $50,000; St. Joseph's Rectory and furniture, $15,000; the National Clothing Store, Levy, Lachenbruch & Co., proprietors, building and stock, $15,000; the Paterson Department Store, D. Sonneborn, proprietor, building and stock, $50,000; Schuerac, grocers, building and stock, $50,000; Marshall & Ball, clothiers, building and stock, $60,000; Globe Department Store, D. Bohm, proprietor, building and stock, $55,000; Stevenson Bldg., $40,000; Kent's drug store, $25,000; Kinsella's drug store, $25,000; Fuld's shoe store, $15,000; Muzzy Bros., hardware, building and contents, $150,000; Douglas shoe store, $10,000; "Sunday Chronicle," $15,000; Romaine building, $100,000; D. H. Wortendyke & Co., grocers, $20,000; John Norwood, paints, $75,000; Engine House No. 1, $5,000; Oberg's grocery building and contents, $25,000; estate of Daniel McAteer, wholesale liquors, building and contents, $50,000; Police Patrol, headquarters, $5,000; L. D. Michaelson, clothier, stock, $25,000; Sorosis shoe store, stock, $10,000; Waldorf shoe store, stock, $10,000; Cogan & Touhey, saloon, $10,000; J. Brett, saloon, $10,000; Hugo Munzer, saloon and wholesale liquors, building and contents, $75,000; Wm. Kane, saloon, $10,000; Dr. E. F. Denner, residence and furniture, $20,000; John Mullins, furniture stock, $15,000; Bishop & Irwin, department store, stock, $15,000; J. A. Van Winkle & Co., hardware, building and contents, $50,000; Broadway car stables and cars, $100,000.

CAMDEN, N. J.—The plans for the office and warehouse building at Front and Mechanic Sts., this place, for the Philadelphia & Pittsburg Oil Co., have been completed, and call for a 2-story brick building of slow-burning mill construction.

PHILADELPHIA, PA.—Announcement has been made that the St. George's Hall building, at 13th and Arch Sts., has been sold by Henry C. Lea, and the purchasers will soon tear down the present structure and erect a 10-story office building, 60 × 137 ft.——The plans for the buildings for the Widener Memorial Training School for Crippled Children having been completed work will begin in a few weeks. The plant will consist of a convalescent and educational building, an industrial building and two cottages. The central building will be three stories, 314 × 40 ft., with two wings, each 32 × 144 ft. The endowment is made by Peter A. B. Widener in memory of his wife, and will represent about $2,600,000.——The Philadelphia & Reading R. R. has awarded the contract for the erection of the new Harrisburg freight station, offices and shed to Cramp & Co., of this city, at about $50,000.——Plans are being prepared by Seymour and Paul A. Davis, Archs., 1907 Walnut St., for a 6-story fireproof warehouse in this state, for which contracts will soon be let.

PITTSBURG, PA.—B. F. Keith is planning to build a $1,000,000 theatre in this city, according to reports.——The McCormick Harvesting & Machine Co. will erect a $45,000 brick and stone and warehouse building on North Ave., Allegheny.

READING, PA.—The directors of the Berkshire County Club have decided to expend about $40,000 in the improvements to be carried out this spring, comprising to purchase of new grounds and the erection of a new clubhouse. Frank C. Smith, Pres.

CUMBERLAND, MD.—Bids are asked until March 11 for the construction of the U. S. court house and postoffice at this place. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

WASHINGTON, D. C.—Bids are asked until March 27 for the improvements at Moqui, Fort Apache, Fort Mojave or Truxton Canon, Ariz., comprising two domitories, one school, one mess hall and employees quarters, one laundry and one warehouse, all of stone. W. A. Jones, Indian Comr., Dept. of Interior.

WASHINGTON, D. C.—A. B. Heaton, Arch., 902 F St., N. W., is preparing plans for an 8-story fireproof apartment house, 100 × 160 ft., to be erected at the southwest corner of Connecticut and California Aves., at an estimated cost of $300,000. John L. Weaver, 1416 Y St., N. W., is the president of the company.——The Secretary of the Navy has submitted to Congress a supplemental estimate of $100,000 towards the construction of a fireproof storehouse at the Washington Navy Yard, the total cost of which is to be $225,000.——The Senate Committee has favorably reported a bill appropriating $7,000,000 for the construction of a building to be used by the Departments of State and Justice, and for the offices of the President, to occupy the square bounded by Pennsylvania Ave., H St., Jackson Place and 17th St., and connected with the White House by a tunnel. This is the site chosen by the park commission, whose plans are now on exhibition in the Corcoran Art Gallery. The building will be 325 × 250 ft., and four stories in height. Its architecture will be classic with ornate interior decorations, the plans to be obtained through competition.

RICHMOND, VA.—A bill has been offered in the House for an appropriation of $1,025,000 for a new post office in this city.

WILLIAMSON, W. VA.—The following bids for the erection of a court house at this place were received by the county commissioners on Jan. 28: Chas. A. Moses, Chicago, Ill., $37,990 (accepted); Smith & Wilson, Bristol, Tenn., $38,995; C. W. Dowling, Williamstown, W. Va., $48,875; A. L. Shockey, Central City, W. Va., $49,000.

CARTERSVILLE, GA.—The Western & Atlantic R. R. Co. will build a new depot at this place.

BIRMINGHAM, ALA.—Rev. R. H. Keller, agent of the Alabama Colored Orphans & Old Folks' Home, to be located in this city, will endeavor to secure $50,000 in northern cities for carrying out the work.

HUNTSVILLE, ALA.—Michiner & Henderson have awarded the contract for their large oak spoke factory building here to E. L. Patterson & Co., of this place.

TUSCUMBIA, ALA.—A. B. Elliott, Hickory, N. C., has been awarded the contract for the erection of several buildings at the Sheffield shops of the Southern R. R. to cost about $50,000.

NEW ORLEANS, LA.—Bids are asked until March 15 for the construction of a brick and steel building at the naval station, New Orleans, to cost about $46,000. M. T. Endicott, Ch. Bureau Yds. and Docks, Washington, D. C.

NASHVILLE, TENN.—The senate committee on public buildings has reported favorably on the bill appropriating $100,000 for the improvement of the postoffice in this city.——The Nashville R. R. Co. will erect an arcade and transfer station in this city to cost something like $100,000.

NASHVILLE, TENN.—A committee has been appointed to select a site for the proposed Carnegie Library. Edgar Jones, Chn.

CINCINNATI, O.—The trustees of the city hospital have decided that a new building is necessary, the present structure cannot be properly repaired for less than $250,000.

DAYTON, O.—Bids are wanted by the board of education until Feb. 27 for the erection of a brick school building at First and St. Clair Sts., to contain 16 rooms. Frank Fifle, Pres.

INDIANAPOLIS, IND.—Bids are asked until March 17 for the general construction of the court house and post-office building at Indianapolis. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.; Rankin & Kellogg, Archs., 1012 Walnut St., Philadelphia, Pa.

ANN ARBOR, MICH.—Bids are asked until March 1 for erecting a school to cost about $35,000. E. W. Groves, Cy. Engr.

DETROIT, MICH.—Bids are asked until Feb. 13 for the purchase of $100,000 in court house bonds. John E. Nash, Chn. Com. Bd. Supervisors.

BLOOMINGTON, ILL.—Bids are asked until Feb. 13 for erecting three fire stations. Lewis B. Thomas, Pres. Bd. Local Improvements.

CHICAGO, ILL.—Bids are wanted by the Committee on Buildings and Grounds until Feb. 14 for the building of the superintendent's residence of Parental School, North St. Louis Ave., near Berwyn Ave.——Potter Palmer will erect an 8-story apartment house at Lincoln and Oak Sts., costing approximately $180,000. Plans have been prepared by C. M. Palmer, Arch.——The L. S. & M. S. Ry. Co. and C. R. I. & P. Ry. Co. will erect an 8- and 11-story brick depot and office building at 136-154 Van Buren St., to cost $2,000,000.——Koelling & Klappenbach will begin the construction of an 8-story building at 100-02 Randolph St., to cost about $100,000. It will be 40 x 90 ft.——The 5-story warehouse at 148 Michigan Ave., occupied by Gage Bros. was burned on Feb. 7, with a loss of $80,000. The Sanford Bldg., at 38 Randolph St., was also destroyed; loss, $60,000.——Wm. Barbee has purchased the building at 292 Wabash Ave., and will improve it by the addition of four stories.

DWIGHT, ILL.—The laboratory and office building of the Keeley Institute and the Livingston Hotel here were destroyed by fire on Feb. 4, causing a loss of $250,000.

SYCAMORE, ILL.—Bids are asked until Feb. 20 for the construction of a court house at this place; estimated cost, $100,000. A. S. Kinsloe, County Clk.

RACINE, WIS.—Bids are asked by the board of public works until March 1 for the erection of a school building. Gilbert & Rugh, Archs., Racine.

MINNEAPOLIS, MINN.—Plans are being drawn for an apartment building at Chicago Ave. and 17th St., to cost about $125,000. The building will be 183 × 165 ft. Work will begin in the spring.

RAYMOND, MINN.—Bids are asked until Feb. 25 for the erection of a school house at this place. M. A. Scholz, Clk. School Bd.; Fremont D. Orff, Arch., Minneapolis.

DEVIL'S LAKE, N. DAK.—Bids are asked until Feb. 24 for the erection of a brick block at Devil's Lake. M. H. Brennan may be addressed.

KANSAS CITY, MO.—The Crane Supply Co. has secured a permit for the erection of a warehouse at 10th and Hickory Sts., to cost $47,000. It will be of brick and will be six stories high.

ST. LOUIS, MO.—The Rice, Stix & Co. warehouse factory building at 1008-12 St. Charles St., recently destroyed by fire will be rebuilt immediately by Henry Timken, owner. F. C. Bonsack, Arch.

ST. LOUIS, MO.—The Mercantile Trust Co. has closed a contract for an 8-story brick and granite office building at Seventh St. and Washington Ave. Maurau, Russell & Gardner, Archs.——The following bids were received by the Louisiana Purchase Exposition Co., on Feb. 3 for the construction of the Varied Industries building, as advertised in Engineering News: Butler-Ryan Co., New York Life Bldg. St. Paul, Minn., $1,000,000; P. M. Hennessy, Globe Bldg., St. Paul, $710,000; West Lake Construction Co., St. Louis, $777,000; Jno. Griffith & Sons, St. Louis, $844,704; Roundtree Construction Co., St. Louis, $620,000 (accepted); Smith & Eastman, St. Louis, $728,918; N. Pelligreen, St. Louis, $827,000; Dunnavant & Estel, St. Louis, $660,834; Goldie & Sons, St. Louis and Memphis, $694,700.

ST. LOUIS, MO.—Bids are wanted by the Louisiana Purchase Exposition Co., 503 Odd Fellows Bldg., until Feb. 18 for the construction of the Textiles Building of the Louisiana Purchase Exposition, as stated in our advertising columns. Isaac S. Taylor, Dir. of Wks.

NEWTON, TEX.—Bids are asked until Feb. 24 for the erection of a 3-story court house building. C. A. Woods, County Judge.

SPOKANE, WASH.—F. Lewis Clark expects to erect a $100,000 brick business block in this city during the coming summer. The building will be located at the northwest corner of Riverside and Lincoln Sts. It will be about four stories high. Arthur D. Jones & Co. will have charge of the matter.

MARTINEZ, CAL.—The board of county supervisors will meet this month to take action on the proposed issuance of $150,000 bonds to complete the new court house and to build a county jail.

SAN FRANCISCO, CAL.—Mrs. J. M. Driscoll will build a 6-story building on Fourth and Clementine Sts., to cost $60,000, to be used for hotel purposes.

STOCKTON, CAL.—Competitive plans and estimates will be received by Jas. A. Darr, Clk. High School Bd., until March 27 for a high school building, to cost not more than $100,000.

ST. THOMAS, ONT.—Bids are asked until Feb. 20. for the erection of a 4-story brick and stone dry goods store, 63 × 120 ft., for Joseph Mickleborough. Neil R. Darrach, Archs.

TORONTO, ONT.—Bids are asked until Feb. 19 for the erection of the new manufacturers' or Main Building and the new Art Gallery for the Toronto Exhibition Grounds. O. A. Howland, Mayor, City Hall.

MONTREAL, QUE.—A. B. Walvin has notified the harbor commission of Montreal that he will accept the offer of a site for a building upon which to erect an elevator and other dock property at a cost of $1,300,000, to handle the grain trade of the Great Lakes.

WATER-WORKS.

ATTLEBORO, MASS.—This town has voted to extend the water mains at a cost of about $30,000.

BOSTON, MASS.—Bids are asked until Feb. 17 for furnishing 2,375 tons of cast pipe. A. P. Martin, Water Comr.

HADLEY, MASS.—The Hadley Water Co. has been incorporated by John L. Kirkpatrick, Dan'l O'Connell, Jr., and J. J. Sullivan to secure a water supply from Hartshorn Brook, to cost $20,000.

HOLYOKE, MASS.—The water commissioners propose to build a dam at the high-service reservoir, to be 425 ft. long on top, 50 ft. wide on the bottom and 25 ft. high, and also to increase the capacity of the Ashley Pond reservoir. J. J. Sullivan, Chn.; A. M. French, Secy.

MERRIMAC, MASS.—The council is reported as considering a proposition to put in works and an electric plant.

SOUTH BRAINTREE, MASS.—The water commissioners are planning to extend the works at a cost of about $100,000.

WENHAM, MASS.—The question of securing works is being considered. Address N. P. Perkins, H. W. Porter and Wellington Pool, Town Clk.

WILLIAMSBURG, MASS.—L. D. James, H. E. Smith and Byron Loomis have petitioned the legislature for permission to extend the works.

FT. WRIGHT, CONN.—Major Ladd, U. S. A., New London, Conn., has received the following bids for constructing works at Fort Wright: Wm. N. Tobin, Syracuse, N. Y., pumping machinery, $2,899; Darling & Slade, Fall River, Mass., pump and boiler house, $3,784; pumping machinery, $3,024; mains, etc., $7,897; C. N. Taylor, Wellesley, Mass., pump and boiler house, $3,000; pumping machinery, $2,700; steel tank, etc., $8,550; mains, etc., $8,500; The Mallory Co., New London, pump and boiler house, $2,515.27; pumping machinery, $2,963.25; steel tank, etc., $8,967.17; mains, etc., $4,603.

ATHENS, N. Y.—Downing & Fergerson, contractors, propose to build works here.

CHAPPAQUA, N. Y.—John M. Farley, Des. Engr., White Plains, N. Y., writes us that the Newcastle Water Co. proposes to construct a system of reservoirs, one of which will be built this spring. Reports state that bids will be wanted in about three weeks.

JAMESTOWN, N. Y.—This city will vote Feb. 15 on the question of issuing $700,000 in bonds for the purchase of the works of the Jamestown Water Supply Co.

MANLIUS, N. Y.—The legislature will be asked to grant this place permission to issue $50,000 in bonds for a dam across Limestone Creek. Address Assemblymen Hammond and Traub.

MARLBORO, N. Y.—Reports state that the Marlboro Water Co. proposes to extend the reservoir, feed pipe, etc. Henry W. Millar, Pres., Utica, N. Y.; J. N. Hughes, Treas. and Supt.

NIAGARA FALLS, N. Y.—The water commission is considering the cost of building a new pumping plant, to cost about $200,000. Address City Engineer Very and Superintendent Swan, of the water-works.

NORTH TARRYTOWN, N. Y.—The Pocantico River Water Co. is reported as negotiating with another company for the sale of its property. It is being urged that the city buy the plant.

OSWEGO, N. Y.—The council is being urged to install a mechanical filtration plant.

TROY, N. Y.—Prof. Wm. G. Raymond, Consult. Engr., writes us that all of the steps necessary to authorize the beginning of work on the new water supply have been taken, the council having approved the plans. Bids for the construction will be asked in the spring. The work involves the construction of a lake about 5¼ miles long, with an average width of about half mile and a depth of about 25 ft. The dam will be 65 ft. high and about 400 ft. long, with a separate spillway about 300 ft. long. The dam will be earth, with concrete core wall, involving about 200,000 yds. of earthwork. There will be about a mile of tunnel through slate rock and about 38,000 ft. of 30-in. pipe. The cost of the dam and reservoir will be $429,700, and the conduit, including right of way, $306,600. John Phelan, Comr. Pub. Wks.; D. E. Conway, Mayor.

PENNSGROVE, N. J.—Reports state that the council has cancelled its contract with Howell & Co. for a water supply and will take steps to build municipal works.

CLEARFIELD, PA.—We are informed that the Clearfield Water Co. will soon want bids for constructing a reservoir.

JERSEY SHORE, PA.—It is understood that the contract for laying about 11 miles of 16-in. pipe for the Jersey Shore Water Co. will be let about March 31. Frank Trump, Pres.

MONESSEN, PA.—The Monessen Water Co. is reported as preparing plans for an addition to the pumping station.

SOUTH BETHLEHAM, PA.—The Saucon Springs Water Co. has been incorporated by Geo. W. Backman, J. S. Hess and C. A. Mauch.

BALTIMORE, MD.—The Maryland Supply Co. has been incorporated, with a capital of $100,000, by Richard H. Johns, Thos. G. McDonald and Saml. H. Taft, to build water-works in the state.

WILLIAMSPORT, MD.—Reports state that private works will soon be built here.

WASHINGTON, D. C.—Congress will soon be asked by the district commissioners for a loan of $11,000,000 to make certain public improvements, to include a filtration reservoir for Potomac water, sewage disposal systems, paving, reclaiming of Anacostia Flats, etc.

WASHINGTON, D. C.—About $75,000 has been asked for to improve the grounds of the Howard University reservoir, construct gate and head houses, etc.

NORFOLK, VA.—The council is reported as considering the question of purchasing the works of the Norfolk County Water Co. N. Beaman, Mayor.

MANNINGTON, W. VA.—It is proposed to lay new 8 and 12-in. mains, build a reservoir, fire department house, etc., and buy more fire fighting apparatus.

NORTHFORK, W. VA.—Bids are asked until about March 1 for constructing works to cost $5,000, according to reports. L. G. Toney, Mayor.

HIGH POINT, N. C.—Bids are asked until Feb. 20 for the purchase of $50,000 of water and sewer bonds. J. J. Cox, Mayor.

FORT TREMONT, S. C.—Bids are asked by the Q. M., U. S. A., until Feb. 15 for constructing works and a sewerage system.

ELKTON, KY.—C. R. Ray, of Providence, R. I., is reported to have made a proposition to build works here.

CLEVELAND, O.—Bids are asked until Feb. 19 for furnishing stop cocks, air cocks, valves, etc., 50 tons of pig lead, c.-i. stop cock boxes, etc., as may be wanted during the year, and until March 5 for furnishing 3 to 48-in. water pipe, castings, 200 4-in. and 20 6-in. hydrants, 4 to 48-in. water valves, etc. C. P. Salen, Dir. Pub. Wks.

COLUMBUS GROVE, O.—New bids will be asked by the council at once for the purchase of $30,000 of 4% bonds for the proposed works.

PORTSMOUTH, O.—The joint water committee has recommended the appointment of an engineer to report on the proposed improvements to the works.

IRVINGTON, IND.—The town board is considering propositions for water-works franchises from Frank Schefold, Engr., of New Albany, Ind., and the City Water Co. of Irvington.

KOKOMO, IND.—The council has extended the franchise of the Kokomo Water Co. for a period of eight years.

KALAMAZOO, MICH.—The question of better fire protection, including water mains, fire-fighting apparatus, etc., is being considered. Address Mayor Mills.

SWAYZEE, IND.—The question of works and an electric plant for this city is being considered.

AURORA, ILL.—H. D. Hallett, of this city, has been instructed to prepare plans for a reservoir to be 230 ft. long by 140 ft. wide and 12 ft. deep. Bids will be asked as soon as the plans are completed.

GROSSDALE, ILL.—Wm. B. Ewing, Des. Engr., 1003 Chamber of Commerce Bldg., Chicago, writes us that contracts will be let about May 1 for about seven miles of mains, the water supply to be secured from the La Grange Water-Works.

FREEPORT, ILL.—Bids are asked until Feb. 25 for furnishing a horizontal high-duty pumping engine of 3,000,000 gallons capacity, as stated in our advertising columns, for the Freeport Water Co. O. T. Smith, Supt.

VIRDEN, ILL.—Geo. C. Morgan, Royal Insurance Bldg., Chicago, has completed plans and specifications for works, to include a water tower 117 ft. high, 27,000 ft. of 4 to 10-in. mains, etc.; estimated cost, $46,000.

VIRGINIA, ILL.—The question of securing a permanent water supply will probably be voted upon in April.

WOODHULL, ILL.—This place is said to have voted to issue $20,000 in bonds for works. Pop., 770. It is also stated that Henry is talking of works.

APPLETON, WIS.—Reports state that the Hockworthy Construction Co. has been awarded the contract at $14,491 for a water supply and at $19,477 for the buildings. The bid of J. H. Green & Sons at $55,899, for pipe laying, was recommended for acceptance.

EAU CLAIRE, WIS.—Reports state that the question of a municipal plant is being considered.

RACINE, WIS.—The Racine Water Co. proposes to lay a main across the river to Kinzie Park.

BENNETT, IA.—Reports state that this place will soon vote on the question of building works.

ESSEX, IA.—The question of works to cost $5,000 and an electric plant is being considered.

LATIMER, IA.—This place has voted to issue bonds for works, according to reports.

ALBANY, MINN.—Allan Black & Co., of St. Paul, are reported to have been awarded the contract, at $9,274, for constructing works.

ATCHISON, KAN.—It is stated that the Atchison Water Co. will lay about 31,000 ft. of 4 to 12-in. mains, set 47 new hydrants, build a 2,000,000-gallon reservoir, etc. E. S. Wells, Supt.

EXCELSIOR SPRINGS, KAN.—Henry Ettenson has submitted a proposition to build works here to cost from $100,000 to $150,000. The water supply will be secured from a point eight miles from here.

DOUGLAS, WYO.—Reports state that this place has voted to issue $75,000 in bonds for works and sewers and to extend the electric plant.

SARATOGA, WYO.—The Kuykendall-Wilson Development Co. has been incorporated with a capital of $500,000 by J. W. Wilson, W. C. Kuykendall and H. L. Kuykendall and the Brush Creek Ditch Co. with a capital of $100,000 by the same men, to build irrigation ditches.

GREAT FALLS, MONT.—The water commissioners propose to purchase a new engine, pump, mains, etc., to furnish water to Boston Heights.——Father Pauwelny, Chn. Cemetery Com., proposes to secure a water supply for Calvary Cemetery, to cost $7,500.

PLAINS, MONT.—Plans are reported as being made for works for the Plains Water Co. Pop., 4,000. J. A. McGowan, Pres.

CARTHAGE, MO.—J. F. Barker, of the Commercial Club, is urging the sinking of deep wells for a water supply.

DE SOTO, MO.—This place has voted on the question of issuing bonds for works.

HUNTSVILLE, MO.—E. P. Sutliff, of this place, proposes to build works and an electric plant. An engineer is wanted to prepare plans, etc., or a concern to build the same. Pop., 2,500. J. A. Bright, Mayor.

MARSHALL, MO.—Bids are asked until March 3 for constructing works and an electric plant to cost $70,000. The water supply will be secured from wells. Hiram Phillips, Engr., St. Louis, Mo.; A. R. James, Cy. Clk.

COMANCHE, TEX.—This place will soon vote on the question of granting a bonus of $4,000 for works to be built by private parties.

PLANO, TEX.—This place will soon issue bonds for extending the works, according to reports.

ROBY, TEX.—The Roby Water Supply Co. has been incorporated with a capital of $5,000, to build works, by J. P. Green, C. C. Pollard, W. B. Hester and N. H. Irvin.

COLORADO SPRINGS, COLO.—The council has voted to furnish the city of Victor with 40,000,000 gallons of water. The latter city proposes to construct two reservoirs. Address Mayor Franklin, of Victor, and City Engineer Case.

FLORENCE, COLO.—Bert Gardner has been awarded the contract at $9,000 for building a reservoir here.

FORT COLLINS, COLO.—Reports state that the following contracts have been let by F. C. Brable, of the North Poudre Land & Irrigation Co., for building two irrigation reservoirs, etc.: J. Finzer, of Ft. Collins, Fossil Creek reservoir, stone conduit, $4,000; John McNabb, Ft. Collins, hauling 175 carloads of sand and cement; J. L. Gray, 600 carloads of stone; Wm. C. Bradley, Denver, 300,000 cu. yds. of earth work; Wm. Riley, of Loveland, Colo., supply ditch, $100,000.

GREELEY, COLO.—P. W. Putnam, B. B. Putnam and L. L. Stimson propose to build a new reservoir to cost about $100,000.

MOUNT VERNON, WASH.—Horace P. Decker has been granted a franchise for works.

SEATTLE, WASH.—The Seattle & Lake Washington Waterway Co. has leased the pumping plant at Lake Washington belonging to this city.

LOS ANGELES, CAL.—The Los Angeles City Water Co. has asked the council to approve plans for enlarging its works, to include new mains, pumping plant, etc.

SANTA BARBARA, CAL.—W. M. Hicks, of Boston, Mass., representing Eastern parties, has purchased the Elwood Copper Ranch, and it is proposed to build an irrigation reservoir, etc.

VENTURA, CAL.—The Ventura Water, Light & Power Co. proposes to improve its works, now that the new company has abandoned its purpose of building works.

TEMPE, ARIZ.—Gilbert, Wilkes & Co., it is stated, will prepare plans and build works for this place.

LEWISTON, IDAHO.—We are informed that Seasongood & Mayor, of Cincinnati, O., have purchased $80,000 of 5% 20-year water-works bonds for $81,069. Ernest McCullough, Cy. Engr., will have plans for the proposed works ready Feb. 18, and the contract will be let early in April. The city has been sustained in all points regarding the sale of the bonds, against which an injunction was brought by the water company.

SALT LAKE CITY, UTAH.—The city engineer has recommended that a reservoir be built to have a capacity of 5,000,000 gallons.

EUREKA, UTAH.—The Eureka Hill Mining Co. proposes to build water-works to cost $15,000.

HULL, QUE.—An election will soon be held to vote on the question of issuing $23,000 for completing the works. A. Thibault, Chn. Com.

MONTREAL, QUE.—Geo. Janin, Supt. Water-Works, writes us specifications will soon be issued and bids will be asked about March 15 for a 6,000,000 (U. S.) gallon electric pumping plant for the high-level pumping station.

TORONTO, ONT.—City Engineer C. H. Rust submits his estimate for 1902, for new mains, which include $87,500 for steel pipe from shore crib to opposite Toronto Island basin, including necessary connections, and $96,250 for steel pipe from opposite Island basin to tunnel shaft, including 5-ft. connection to existing 5-ft. steel pipe; also $162,053.65 for 36-in. main, Bathuis, Dupont and Yonge Sts., from College St. to Rosehill reservoir. A new 15,000,000-gallon engine, main station, $150,000; a new 5,000,000-gallon engine, high-level station, $40,000; miscellaneous in water-works estimates for the year added to above total $800,592.79. The water consumption for 1901 was 2,030,000,000 gallons over 1900.

ST. JOHN, N. B.—Wm. Murdoch, Engr. and Supt. Water and Sewerage Bd., has recommended certain improvements to the water-works, to consist of raising the dam at Little River, the building of a new dam, etc. Alderman Millidge, Chn. Water Com., has recommended the extension to the Silver Falls pumping station and other improvements for increasing the water supply.

SEWERAGE.

LAWRENCE, MASS.—An ordinance is before the council for extending the Shanty Pond sewer, at a cost of $50,000.

LYNN, MASS.—The legislative committee on drainage has reported favorably on the bill authorizing this city to issue $200,000 in bonds for sewers.

QUINCY, MASS.—There is about $25,000 available for sewers and the sewer commissioners have recommended that the legislature be petitioned for authority to borrow $200,000 for sewer construction; also that the main sewer be built to Quincy Point, and plans made for Ward 4.

TEWKSBURY, MASS.—The question of building a sewerage system is reported as being considered.

NEW BRITAIN, CONN.—Reports state that it is hoped to begin work on the proposed new system this year. The filter beds will be improved, trunk and intersecting sewers and 1,700 ft. of tunnel under the Booth farm will be built. Address Engineer Cadwell, Clk. Dept. of Sewers.

BINGHAMTON, N. Y.—It is proposed to call an election Feb. 27 to vote on the question of issuing $100,000 in bonds for a trunk sewer. Address City Engineer Monroe or Mayor Smith.

PATCHOGUE (L. I.), N. Y.—A petition will be presented to the trustees asking that the question of constructing sewers in four streets, at a cost of $10,000, be submitted to the voters.

WHITE PLAINS, N. Y.—B. F. Darling, Village Engr., writes us that nothing has been done in regard to the proposed sewage pumping station.

DOYLESTOWN, PA.—The Doylestown Sewerage Co. has been incorporated to build sewers; capital, $50,000.

PHILADELPHIA, PA.—Apportionment of the $200,000 item for main sewers in this year's appropriation is as follows: Twenty-first St., $15,000; York St. extension, $40,000; Pratt St., $20,000; Gorgas Run extension, $35,000; Thomas Run extension, $15,000; Orthodox St., $40,000; Anderson St., $25,000; Lincoln Ave., $10,000. According to estimates made by the Survey Bureau for this year $3,635,000 is needed for new sewers. This amount would provide for 38 sewers. In the proposed $5,000,000 loan there is an item of $400,000 for new sewers.

VERONA, PA.—A. J. Householder, Clk., writes us that an election will be held Feb. 18 to vote on the question of issuing $45,000 in bonds for works.

SOUTH BOSTON, VA.—Henry E. Knox, Jr., Charlotte, N. C., writes us that surveys for improved sewerage and water supply have just been begun by him. It will be 90 days before plans, estimates, etc., are completed.

BREVARD, N. C.—The question of building a sewerage system is being considered.

WAYNESVILLE, N. C.—Bids are asked until Feb. 15 for constructing sewers and water-works. G. S. Ferguson, Jr., Clk.

GREENWOOD, S. C.—J. B. Park, Mayor, writes us that an election will be held Feb. 15 to vote on the question of issuing $40,000 in bonds for sewers and other improvements.

GRIFFIN, GA.—The council proposes to issue $50,000 in bonds for sewers and $25,000 in bonds for extending the water-works. Address Mayor Bailey.

DOTHAN, ALA.—W. S. Wilson has begun the construction of the proposed system to cost about $20,000.

OPELIKA, ALA.—The Opelika Sewer Co. has been incorporated with a capital of $75,000 to construct a system, work on which will soon be begun. C. C. Torbert, Pres.; W. C. Robinson, Secy. and Treas.

ASHLAND, O.—Bids are asked until March 27 for constructing a system to cost about $60,000. There will be 17 miles of 6 to 15-in. pipe sewers, a sewage-disposal bed, etc. Wm. G. Hethman, Mayor; S. W. Hull, Cy. Clk., L. E. Chapin, Engr., Canton, O.

MARION, O.—Ed. S. Ault, Cy. Engr., writes us that the city will receive bids until March 1 for 5,000 ft. of sanitary sewer and until March 15 for 6,700 sq. yds. vitrified brick or block pavement.

MIDLAND, MICH.—This place has sold $19,000 of bonds for sewers. Roy Hart, Mayor, writes us that the bonds will also be used for crushed stone and gravel roads.

PORT HURON, MICH.—The following bids were received by the council Feb. 1 for constructing certain sewers: W. F. Ernst, $11,293; C. Walters, $11,217; Thos. McMahon, $10,614; B. D. Bartow, $8,190; H. Kaumeier, $7,898; Finane & Co., $4,341.

CHICAGO, ILL.—Three propositions for the drainage of the district between the canal and West 56th St. along the district centering in Western Ave., were presented to the engineering committee of the drainage board Feb. 3. The plans provide for the drainage of the district in co-operation with the sanitary district, to which two plans refer, and to the drainage of the district by the city alone. The object is to eliminate the stock yards slip, and thereby do away with what is termed by officials a constant menace to health. The cost of the three plans varies from $279,000 to $137,000, the latter being the cost to the city if the drainage board does not co-operate. The plans have been referred to the engineering departments of both the sanitary district and the city.

KANKAKEE, ILL.—We are informed that the Illinois Eastern Hospital for the Insane has rejected the bids recently received because they were too high. It is possible that the board of managers may build the system itself.

PEKIN, ILL.—The board of local improvements has decided to build sewers for the south side, at a cost of about $45,000.

WOODBURY, N. J.—We are informed that Wm. F. McGovern, 323 Brunswick Ave., Trenton, N. J., has submitted the lowest bid, at $40,140, for constructing a sewerage system. The next lowest bid was submitted by the Trenton Stone & Construction Co., at $40,537. Wm. Easby, Jr., Engr., College Hall, University of Pennsylvania, Philadelphia.

MOUNDSVILLE, W. VA.—Specifications for a complete sewerage system have been prepared and in the near future an election will be held to vote upon issuance of sewerage bonds. C. W. Conner, Cy. Clk.

COUNCIL BLUFFS, IA.—S. L. Etnyre, Cy. Engr., writes us that bids will be received until Feb. 24 for 6, 8, 10 and 12-in. pipe sewers, average cut to be 10 ft.; also for six manholes and two flush tanks. Plans and specifications are on file at his office.

ABILENE, KAN.—P. H. Halleck, Mayor, writes us that bids for plans and specifications for a sanitary sewer will be received until Feb. 19.

DOUGLAS, WYO.—Reports state that this city will issue this spring about $75,000 in bonds for water-works, sewers and extending the electric plant.

FAYETTEVILLE, ARK.—The question of building a system is being considered.

CHICO, CAL.—Richard White, Cy. Clk., writes us, under date of Feb. 1, that the trustees on Feb. 5 would probably call for bids for constructing a sewerage system to cost $45,000. V. T. McCray, Engr., Chico.

REDDING, CAL.—An election will soon be held to vote on the question of issuing bonds for sewers and grading.

SACRAMENTO, CAL.—Wm. Mullenney, Cy.Surv.,writes us that plans are being prepared by Rudolph Hering, New York, N. Y., for a complete sewerage system.

SAN DIEGO, CAL.—It is proposed to build sewers in University Heights, at a cost of about $61,648.

SAN DIEGO, CAL.—Reports state that the board of public works has decided to advertise for bids for reconstructing the outfall sewer and for constructing a pipe line on 28th St. to the city park.

SAN FRANCISCO, CAL.—The City Street Improvement Co. has been awarded the contract, at $29,181, for constructing an extension to the Sunset main sewers. C. E. Grunsky, Cy. Engr.——W. C. Keogh, Acting Asst. Secy. Bd. Supervisors, writes us that bids will be received Feb. 14 for constructing the Army St. sewer extension, to cost about $32,000.

SELMA, CAL.—P. W. Barre has prepared estimates for a system.

STOCKTON, CAL.—G. A. Atherton, Cy. Surveyor, writes us that bids for 28,000 ft. of pipe sewers, from 8 to 18 ins. in size, average cut 4 ft., will probably be received about March 15. At the same time bids for a cast-iron outfall sewer, 16 ins. in diameter and 6,700 ft. in length, will also be received. The estimated cost of the two sewers is $51,000.

TUCSON, ARIZ.—This city will extend the sewers and water mains, at a cost of about $25,000.

KINGSTON, ONT.—The board of works proposes to improve the sewers, at a cost of about $25,000. L. W. Shannon, Cy. Clk.

WOODSTOCK, ONT.—We are informed W. M. Davis, of Berlin, Ont., has prepared plans for a trunk sewer, septic tanks and filter beds, to cost about $18,000. An election will be held about April 1. F. J. Ure, Cy. Engr.

GARBAGE DISPOSAL—STREET CLEANING

LOWELL, MASS.—John F. Murphy has submitted two propositions to build and operate a garbage crematory; estimated cost, $25,000. Dr. Guy Hitchbrook, Chn. Bd. of Health; John McGuinness, Secy.

HARRISON, N. J.—Reports state that S. E. Rice and J. M. Hoff, of Newark, N. J., propose to build a garbage crematory here.

NORRISTOWN, PA.—It is stated that a garbage crematory will probably be erected here. Address the Sanitary Committee of the Council.

CINCINNATI, O.—The Cincinnati Reduction Co., care of Foraker, Outcalt, Granger & Prior, lawyers, is preparing to build a crematory at once, to be completed by June. This company had the contract for collecting and disposing of the garbage. M. H. Chamberlain, Pres., Detroit, Mich.

DES MOINES, IA.—A. C. Frish, Clk. Bd. Pub. Wks., writes us that nothing definite has yet been determined by the council as to the new crematory, but the matter will be decided by the council by April 1.

DALLAS, TEX.—The question of building a new crematory is being considered. Councilman Lindsay, Chn. Com.

SACRAMENTO, CAL.—The question of building a crematory is being considered. Address Trustees F. F. Tebbets and E. J. Carragher.

SALT LAKE CITY, UTAH.—We are informed that a site has not yet been selected for a garbage crematory.

TORONTO, ONT.—It is stated that a crematory is to be built on the island, to cost $2,000.——A proposition for cleaning the streets is being considered.

STREETS AND ROADS.

DOVER, N. H.—The council has appropriated $26,102 for highway work, and the purchase of a steam road roller.

NEWTON, MASS.—Bids are asked until March 1 for subgrading Boylston St., Newton. G. E. Sleeper, Ch. Engr., 20 Central St., Boston.

COHOES, N. Y.—Bids are asked until Feb. 19 for grading in a number of streets, the work to consist of about 18,500 cu. yds. of excavation, the greater part of which is shale rock, and of 34,500 cu. yds. of extra filling, which can be procured nearby. Edward Hayes, Engr.; W. J. Elliot, Clk.

WEST HOBOKEN, N. J.—Bids are asked until Feb. 26 for asphalt paving. J. P. McMahon, Town Clk.

APPLING, GA.—Reports state that the county will buy a road roller, etc., for work on the new roads. Geo. W. Gray, Ordinary.

ATLANTA, GA.—Bids are asked until 3 p. m. Feb. 17 for furnishing and setting stone curbing, furnishing and laying brick sidewalks, furnishing cement, furnishing vitrified sewer pipe, furnishing cast-iron manholes and catch-basin covers, steps, etc., furnishing brick and constructing sewers. R. M. Clayton, Cy. Engr.

SAVANNAH, GA.—Bids are asked until March 1 for 50,000 sq. yds. of No. 1 paving brick. Geo. M. Gadsden, Dir. Pub. Wks.

COLUMBUS, O.—The Barber Asphalt Co., of New York, has been awarded the contract, at $13,874, for asphalt paving in Buckingham St. The Cleveland Trinidad Asphalt Co. submitted a bid at $13,778.

CINCINNATI, O.—Bids are asked until Feb. 17 for brick and macadam paving, and until Feb. 21 for macadam paving. Geo. F. Holmes, Clk. Bd. Pub. Service.

LIMA, O.—Bids are asked until Feb. 17 for the purchase of $28,352 of 4% bonds for street work. C. E. Lynch, Cy. Clk.

TOLEDO, O.—Bids are asked until Feb. 17 and March 3 for brick, asphalt or other kinds of paving. J. E. Connell, Cy. Clk.

WABASH, IND.—Bids are asked until Feb. 24 by the common council for asphalt paving in two streets.

KALAMAZOO, MICH.—E. W. Buckley, Cy. Engr., writes us that a resolution has been passed for about 1,300 lin. ft. of asphalt or asphalt paving in Academy St.

CHICAGO, ILL.—The board of public improvements has ordered granite block paving in W. 22d St., to cost $139,000; asphalt paving in Ellis Ave., Fifth Ave. and Gurley St., to cost $90,000, and limestone paving in Loomis St., to cost $27,500.

LA CROSSE, WIS.—Frank Powell, Cy. Engr., writes us that bids will be asked some time between April 1st and 15th for 6,700 sq. yds. of brick paving; estimated cost, $14,000, and 62,000 sq. yds. of granite-top macadam, with 30,000 ft. of concrete curb and gutter; estimated cost, $70,000.

MILWAUKEE, WIS.—The board of public works has recommended that 13 streets be paved with brick, asphalt or macadam. About $250,000 will be expended for street improvements this season.

OSHKOSH, WIS.—It is proposed to pave portions of six streets at a cost of about $50,000. The cost of paving with brick or asphalt in Algoma St. has been estimated at $12,283, and in Washington St., at $13,879. Geo. Randall, Cy. Engr.

DES MOINES, IA.—Bids are asked until Feb. 25 for constructing such brick and cement sidewalks as may be required during the year. G. A. Eberhart, Chn. Bd.

ST. PAUL, MINN.—The board of public works has authorized asphalt, sandstone and brick paving in several streets at a cost of about $100,000.

SEATTLE, WASH.—The council will on March 3 consider the matter of improving 23d Ave. South. The question of widening West Lake Boulevard is being considered.

SALT LAKE CITY, UTAH.—L. C. Kelsey, Cy. Engr., writes us that the city proposes to pave certain streets with asphaltum, at a cost of about $120,000.

BROCKVILLE, ONT.—It is stated that Leeds and Grenville counties will spend $111,900 for building 260 miles of good roads, and will soon purchase the necessary machinery. Wm. Richardson, Clk.

WENTWORTH, ONT.—The county council proposes to build new roads at a cost of about $75,000. J. W. Jardine, County Clk., Hamilton.

MANUFACTURING PLANTS.

TERRYVILLE, CONN.—Plans are being prepared by Theo. B. Peck, Arch., Waterbury, for a new factory building to be erected by the Eagle Lock Co. on South Main St. The building will be four stories, 50 × 250 ft. Work will be commenced as soon as the plans are completed.

BUFFALO, N. Y.—The Wright Taper Roller Bearing Co. has been incorporated with a capital stock of $900,000, and will erect extensive works in this city. Lewis J. Bennett, Buffalo; Wm. B. Rankine, Niagara Falls, and others are incorporators.——The Snow Steam Pump Works has purchased land adjoining its present plant and will double its capacity. There will be three new buildings a foundry, 132 × 450 ft., a machine shop 100 × 450 ft., and an additional office building 75 × 100 ft., costing approximately $500,000. The contract for the foundry has already been let to the American Bridge Co. and work will be started within six weeks.

ITHACA, N. Y.—Announcement is made in local papers that another large salt plant is soon to be erected at Portland, near the present Portland cement plant.

NEW YORK, N. Y.—The sawmill owned by William E. Uptegrove & Bros. at East 10th St., Manhattan, will be removed to Greenport, where a building 500 × 100 ft. will be erected. About 75 men will be employed.

PHILADELPHIA, PA.—Plans have been completed by Collins & Autenreith, Archs., 410 Walnut St., for a large factory building of irregular shape at Allegheny and Sedgely Ave. Bids will be received on Feb. 15.——Wm. Steele & Son and Kendrick & Co. have posted plans for sub-bids on the proposed new machine shop for Alfred Insinger at Wayne Junction, to be three stories, 52 × 180 ft.

PITTSBURG, PA.—The Standard Steel Car Co. has awarded contracts for the erection of the new plant to the McClintic-Marshall Construction Co., of this city, which aggregate $1,150,000. There will be three buildings. The main building is to be 340 × 1,612 ft., the adjoining shop, for the manufacture of wooden cars, with metal under frames, will be 100 × 552 ft., and the third building, a paint shop, will be 80 × 800 ft. About 300 tons of steel will be used in the construction. The contracts for equipment were noted in our issue of Feb. 6.——Horace G. Mehring, Sheridan, will erect a factory on the Monongahela River at the foot of South 20th St.

WILLIAMSPORT, PA.—The contract for the erection of the 12 buildings for the Susquehanna Dye Works has been awarded to W. H. C. Huffman & Sons, of this city, at $100,000. Some new machinery will be purchased and the machinery from the Petersburg, Va., plant will also be used.

RICHMOND, VA.—The sum of $30,000 will be expended by Cameron & Cameron in rebuilding their factories, recently partially destroyed by fire.——The contract for the construction of an erecting shop for the Richmond Locomotive Works has already been let. The building will be 75 × 300 ft. and 100 ft. in height.

ACWORTH, GA.—The mills here were recently destroyed by fire. A company headed by James L. Lemon, Orlando Awtly and T. F. Moore will rebuild them.

WINDER, GA.—The Carolina Chemical Co. has purchased 75 acres of land here and will erect a large oil mill and guano works. A $65,000 plant will be erected in the spring.

NEW ORLEANS, LA.—The Swift Packing Co., of Chicago, has closed options on a site at Baronne and St. Joseph Sts., for the erection of an immense plant, which will cost in the neighborhood of $250,000.——The Johnson Wheel Co., capitalized at $1,000,000, has been organized, and will erect a plant in this city. Albert Mackie, Pres.; J. N. Johnson, Vice-Pres.

TUSKALOOSA, ALA.—It is reported that Ben Catchings, of Birmingham, is at the head of a movement to establish a rolling mill in this city in the near future. The company is to be capitalized at $75,000, and will select the site for its works on the river west of the Mobile & Ohio railway bridge. F. S. Moody and F. G. Blair are associated with Mr. Catchings in the matter.

CANTON, O.—Contracts have been let by the Structural Steel Car Co. aggregating $250,000 for the new plant in the south end of this place, on which work will be started immediately. The contracts for the main building, which is to be 504 × 78 ft., and for the boiler house and engine rooms, 50 × 175 ft., have been let to the Canton Bridge Works. These buildings will be of steel and entirely fireproof. The engines and boilers will be furnished by the Bass Foundry & Machine Co., Ft. Wayne, Ind., and the electric motors and electric appliances by the Westinghouse Electric & Mfg. Co. The Cleveland Punch & Shear Works and the Laidlaw Dunn Gordon Co. were also awarded contracts for various parts of the equipment.

COLUMBUS, O.—The Road Lumber Co. will erect a box and shook factory at the west end of Buttles Ave. in the spring.

TOLEDO, O.—The Toledo Furnace Co. has closed negotiations for a tract of land embracing about 220 ft. of dock frontage here, on which to erect a blast furnace. About 1,500 men will be employed. H. H. McKeehan, W. B. Stewart and R. H. Crowell, all of Cleveland, are interested.——Pickards, Mather & Co., Cleveland, have secured a large tract of land on the east side of the river, on which a large steel plant will be erected, to cost about $1,000,000. The plant is to be completed this year.

YOUNGSTOWN, O.—Improvements have been decided on by the Republic Iron & Steel Co. to the Bessemer plant, which will comprise the entire rebuilding of the steel plant, increasing the capacity from 600 tons to 1,200 tons every 24 hours, the razing of the present 22-in. blooming mill and erecting a new 40-in. mill. The plans for the improvements are now in the company's local offices. A. W. Thompson, Pres.

DETROIT, MICH.—Local papers state that the Cannon Metal Wheel Works will erect a large factory south of Pontiere as soon as the weather permits.

CHICAGO, ILL.—The plant of the Wireton Heating Co. at Wireton, near Blue Island, was destroyed by fire on Feb. 6, entailing a reported loss of $300,000.——The Hewitt Mfg. Co. has purchased from John A. Spoor, Pres. Union Stock Yards & Transit Co., 2½ acres of ground at Emerald Ave. and 40th St., and will commence work at once on the erection of a $100,000 plant for the manufacture of brass. The work is to be completed by May 1.

MOLINE, ILL.—Williams, White & Co. propose to erect a new machine shop and an electric power and light plant this spring.

JANESVILLE, WIS.—The factory of the Marzluse Shoe Co., in this city, was destroyed by fire on Feb. 3, but will be rebuilt immediately by the owners, Fred. M. Marzluse and Fred Rau, New York.

DENVER, COLO.—The Western Packing Co., of Denver, has filed articles of incorporation with a capital stock of $500,000, and will erect a new packing plant at once, employing about 1,000 men. The plant will consist of two buildings, each 125 × 250 ft., and four stories high, costing, with equipment, about $300,000. D. C. Dodge, Pres.; J. J. Cahill, Gen. Mgr.

TACOMA, WASH.—The Tacoma Co. has been incorporated with a capital stock of $25,000,000 to erect a blast furnace and a steel plant here, at a cost of several million dollars. A. G. Foster will be president.

ASTORIA, ORE.—The Oregon Pine Co. has been incorporated by F. D. Butzer, W. W. Whipple and F. T. Taylor, with a capital stock of $50,000, and will erect a mill at Smith Point.

LOS ANGELES, CAL.—The Los Angeles Mfg. Co., newly incorporated, will build a plant here for the manufacture of iron and steel pipe, oil tanks, etc. George Renwick, H. F. Gunsner and E. E. Mellette are incorporators.

SANTA FE, N. MEX.—I. Sparks, Mgr. Santa Fe Water & Light Works, is reported to be making preliminary arrangements for the establishment of a large wooden mill at this place. A dam will be built in the Nambe River, 20 miles from this city, and a power plant erected there. The power will be wired to operate the mill in this city.

BLYTH, ONT.—Local papers state that the Huron County Packing & Cold Storage Co. has accepted the plans prepared by M. R. Belden for the erection of the group of buildings to handle the products of the farm.

SAULT STE. MARIE, ONT.—H. J. Waddle, Gen. Supt. Algomo Tube Co., of this city, is reported as visiting S. B. Huber & Co., Civil Engrs., Ferguson Bldg., Pittsburg, Pa., in reference to the construction of the plant to be built by the company here after their designs. The contracts to be placed for the structural material and equipment, it is said, will represent an expenditure of $10,000,000.

QUEBEC, QUE.—J. F. McLaughlin, Toronto, representing a U. S. syndicate, is seeking a site to establish a large flour mill in this city, to have a capacity of 1,000 bbls. of flour and 500 bbls. of cereals per day.

MISCELLANEOUS CONTRACTS.

LEVEE.—Waco, Tex.—The city engineer has estimated the cost of extending the East Waco Levee at $5,001.

ROAD ROLLER.—Gloucester, Mass.—It is reported that the highway committee will ask for a new road roller.

STONE CRUSHER.—Delaware, N. J.—The question of purchasing a stone crusher for the town is being considered.

LEVEE.—Paducah, Ky.—An appropriation of $200,000 will be asked for constructing a levee from Paducah to Hickman.

DAM.—Williamstown, N. Y.—A dam and bridge will be built in Fish Creek to replace those destroyed by the recent flood.

DREDGING.—Milwaukee, Wis.—Bids are asked until Feb. 18 for dredging a turning basin to cost about $2,500. C. J. Poetsch, Cy. Engr.

LEVEE.—Union, Ore.—W. H. Griggs has been awarded a contract by L. J. Ferguson for about 10,000 cu. yds. of levee work near Hot Lake.

HOOK AND LADDER.—Toronto, Ont.—It is reported that a new hook and ladder truck will be purchased. Address Fire Chief Thompson.

DOCK.—Buffalo, N. Y.—The contract for building a new dock for the Union Iron Furnace Co. has been awarded to A. F. Chapman & Co.

DREDGE.—Portland, Ore.—The Portland Shipbuilding Co. has been awarded a contract, at $26,500, for constructing the hull of a new dredge.

PIPE LINE.—Jennings, La.—It is stated that a pipe line will be built from this city to Morgan City. Scott Heywood, New Orleans, is interested.

BREAKWATER.—St. Martins, N. B.—It is proposed to construct a breakwater at the Western Creek and extend the structure at the Eastern Channel.

DRAINAGE.—Gueydan, La.—Bids are asked until March 1 for the purchase of $50,000 in drainage bonds. W. D. Spencer, Pres. Gueydan Drainage District.

DIKE.—Northampton, Mass.—The question of constructing a dike in the Williams Valley and lower Pleasant St. district, at a cost of $5,000, is being considered.

ORE DOCK.—Duluth, Minn.—It is reported that the Eastern Minnesota-Great Northern ore dock on Allouez Bay is to be lengthened 6,000 ft., adding 100 pockets.

CANAL IMPROVEMENTS.—Albany, N. Y.—A bill has been introduced in the assembly providing for an appropriation of $5,400,000 for improving the Oswego Canal.

COAL TRESTLE.—Rochester, N. Y.—A. F. Chapman & Co., Buffalo, have been awarded a contract by the Lehigh Valley R. R. Co. for building a coal trestle in this city.

DRAINAGE.—Chester, Pa.—The Meadow Bank Association is considering the question of draining and improving its land on Tinicum Island, at a cost of about $8,000.

DRAINAGE DITCH.—Seattle, Wash.—Work on the White River Valley drainage ditch, which will cost about $33,000, will be started in the near future, according to reports.

BREAKWATER.—Galveston, Tex.—Reports state that the city has secured subscriptions to about $400,000 of the bonds, the proceeds of which will be used for the new breakwater.

RIVER IMPROVEMENTS.—New York, N. Y.—A bill has been introduced in the house providing for deepening the Harlem River at the Harlem Kills, at an estimated cost of $1,500,000.

DAM.—Des Moines, Ia.—Plans are before the park board for a cement and stone dam proposed to be built in the Des Moines River below the junction of the Raccoon. Sidney A. Foster, Pres.

DITCH.—Laporte, Ind.—Mayor Darrow is preparing articles of association of the Kankakee Reclamation Co., which will construct a ditch to reclaim thousands of acres of land now covered by water.

DOCKS, ETC.—Oakland, Cal.—Reports state that the Southern Pacific R. R. Co. intends to make improvements at the Mole, including new docks, fireproof building, etc., which will cost about $1,000,000.

CLEARING, FILLING, ETC.—Annapolis, Md.—Bids are asked until Feb. 19 for clearing site, grading and filling at the U. S. Naval Academy. A. S. Crowninshield, Ch. Bureau of Navigation, Washington.

PIERS.—Jersey City, N. J.—The two freight piers belonging to the Lehigh Valley R. R. Co., including the warehouses, contents, etc., were destroyed by fire last week at a reported loss of about $600,000.

TELEPHONE SYSTEM.—Oshkosh, Wis.—The Wisconsin Telephone Co. will probably erect an exchange building at a cost of $25,000 and expend $70,000 in putting the system underground. A. C. Gallagher, Mgr.

CANAL.—Boston, Mass.—The proposed canal between Boston harbor and Narragansett Bay, a distance of 31.79 miles, will cost about $37,518,358. Provision is made for 14 locks, a pumping system and 20 drawbridges.

WHARF.—Santa Ana, Cal.—Maj. S. H. Finley, County Surv., has been engaged by the West Coast Land & Water Co. to prepare plans and specifications for a wharf to be 500 ft. long and 16 ft. wide, and cost not in excess of $4,000.

HOT WATER HEATING PLANT.—Indianapolis, Ind.—The Citizens' Heat & Light Co. has been incorporated at $10,000, and will apply for a franchise for a hot water heating plant. Geo. L. Bruce, S. M. Smith, W. J. Woods and others are interested.

LUMBER.—Chicago, Ill.—Bids are asked until Feb. 13 for furnishing approximately 500,000 ft. B. M. 2 × 12-22 ft. and 1,250,000 ft. B. M. 2 × 12-in.-20 ft. pine lumber for sections "G" and G 3" intercepting sewers. F. W. Blocki, Comr. Pub. Wks.

TELEPHONE SYSTEM.—McKeesport, Pa.—The Federal Telephone Co. has authorized an appropriation of $10,000 for installing a new central office equipment, and work will commence by April 1 on an underground system, which will cost about $200,000.

LOCK WORK, ETC.—Illinois & Mississippi Canal, Ill.—Bids are asked until March 8 for excavating pits and constructing foundations for two locks and four arch culverts in the Illinois & Mississippi Canal. Maj. J. H. Willard, U. S. Engr., 1637 Indiana Ave., Chicago.

PIERS, ETC.—New York, N. Y.—Eight blocks of property on the Brooklyn water front have been purchased, and it is reported that piers 1,300 ft. long, wharves, warehouses, etc., will be constructed. Irving T. Bush, of the Bush Independent Stores of Brooklyn, is President. Bird S. Coler is interested.

TELEPHONE SYSTEM.—Buffalo, N. Y.—The Frontier Telephone Co., recently granted a franchise for a telephone system, is arranging to begin construction. The franchise requires that at least 3,500 telephones shall be in use by 1905. The wires will be laid in conduits, the laying of which will begin at once. Wilbur H. Johnston, Supt. of Constn., 6th floor, Ellicott Bldg., Buffalo.

TUNNEL.—New York, N. Y.—It is stated that work will soon begin by the Jersey City and New York Ry. Co., recently incorporated, on the completion of the old Hudson River tunnel. The Manhattan terminus will be at Hudson, Christopher and Greenwich Sts. The old tunnel, about 4,000 ft. of which is built, will be strengthened by building piers to bed rock. About 1,600 ft. is yet to be built to reach the New York side. This is the most difficult part of the tunnel, as it will go through a ledge of rock that pierces the bed of the river. Chas. M. Jacobs, Engr., New York.

DRY-DOCK.—San Francisco, Cal.—We are informed that the Atlantic, Gulf & Pacific Co. are now at work on the construction of the new dry-dock at Mare Island Navy Yard. The cofferdam is about 80% completed and the excavation of the site 75% done. The excavation is being done with the hydraulic dredge "Oakland," owned by this company, and is now down to a level 30 ft. below low water. This is practically as deep as the machine will work except on extreme low tide. It will be necessary to carry the excavation down to 38 ft. below low water, and for this lower level the contractors plan to close the cofferdam temporarily with a gate and lower the water inside with the dredge until this lower level can be reached. This work has been delayed very much on account of changing from timber to stone and concrete, but will now be pushed to completion as rapidly as possible. H. R. Stanford, Civil Engr., U. S. N., is in charge of the work for the government.

U. S. POSSESSIONS AND CUBA.

CANNING FACTORY.—Alaska.—Reports state that J. F. Kerr, of Port Townsend, Wash., is preparing plans for a canning factory in Northwestern Alaska.

LIGHT STATION.—Alaska.—Bids are asked until March 6 for erecting the Mary Island light station, Alaska, as stated in our advertising columns. Capt. W. C. Langfitt, U. S. Engr., Portland, Ore.

FEDERAL BUILDING.—Juneau, Alaska.—The Treasury Department, Washington, D. C., will ask for bids at once for constructing a post office building, etc., in Juneau, to cost about $45,000.

WATER SUPPLY.—Hawaii.—Reports state that the Hawaiian Sugar Co., Honolulu, will build an irrigation ditch and make other improvements to its plantations at Makemeli, Kanai, to cost about $800,000.

RAILWAY.—Alaska.—The Alaska Southern Ry. Co., of Danville, Ill., and Guthrie, has been incorporated in Guthrie, Okla. Ter., to build a railway from Burrows Bay, Alaska, to Laketon, B. C., Can., about 250 miles.

BUILDING, ETC.—Havana, Cuba.—General Wood, Gov.-Gen. of Cuba, has appropriated $51,700 for converting the Pyrotechnia Militar into a university, plans for which have been approved.——It is stated that a number of private buildings will be built throughout the city.

PUBLIC IMPROVEMENTS.—Manila, P. I.—Maj. Wm. Tutherly, of the Municipal Board of Manila, has reported that $94,500 is wanted for fire apparatus and a fire-alarm system; $35,000 for a police system; $35,000 for a crematory; $42,500 for a city market, etc.——Reports state that plans have been completed for the Cosmopolitan Hospital for Manila.

FOREIGN CONTRACTS—EXPORT NEWS.

DOCK.—Boulogne, France.—Reports state that the French government proposes to build a dock at Boulogne to be 920 ft. long and 100 ft. wide.

RAILWAY.—Mexico.—The Coatzacoalcos, Yucatan & Central American Ry. Co. has been incorporated at Dover, Del., with a capital stock of $1,000,000.

ELECTRIC RAILWAY.—San Domingo, W. I.—Reports state that Lamar Lyndon, Park Row Bldg., New York, N. Y., has prepared a report for an electric railway in San Domingo.

POWER PLANT.—India.—Reports state that J. N. Tata, Bombay, and Lords Court Bldg., 27 William St., New York, proposes to build a water power plant at Neral, about 40 miles from Bombay.

WATER-WORKS AND SEWERS.—Monterey, Mex.—Reports state that the municipal government will soon ask for bids for constructing water-works and a sewerage system, to cost about $3,000,000.

BUILDINGS, ETC.—Monterey, Mex.—Reports state that U. S. Consul P. C. Haring, at Monterey, has asked Andrew Carnegie for $4,000,000 to aid in the construction of library buildings in this and other Mexican cities where there are colonies of Americans.

ELECTRIC PLANTS.—Sydney, New South Wales.—Reports state that bids will be asked by the Agent-General of N. S. W., in London, Eng., at once for constructing an electric plant in Sydney. It is understood that plants will be built in other towns of Australia and New Zealand.

RAILWAY.—West Africa.—Bids are asked by the Ministry of Negocios da Marinta e Ultramar, Lisbon, Portugal, until May 12 for constructing the two first sections of the Benguella Ry., from Holetts to Monte Sabao. W. A.

ELECTRIC PLANT.—Fulham, Eng.—Bids are asked until Feb. 26 for furnishing two 50-K-W. steam dynamos, four dry-back marine boilers, storage battery and wiring about 2,000 lights. F. H. Medhurst, Engr., 13 Victoria St., London, S. W.

LAND DEVELOPMENT.—Mexico.—The Development Co. of America has purchased about 500,000 acres of timber land in Chihuahua, Mex., which it is proposed to develop at once. F. M. Murphy and H. C. Davis, of San Francisco, Cal., and H. C. Smith, of Milwaukee, Wis., are interested.

BUILDING MATERIALS.—Frankfort, Germany.—U. S. Consul Guenther, of Frankfort, reports that the Society for the Improvement of Workingmen's Dwellings, Dr. Philstein, Secy., Boersenstrasse, Frankfort, wants catalogues, price lists, samples, etc., of building materials, such as plumbers' supplies, sashes, doors, ironwork, etc.

DRAINAGE.—Merida, Yucatan, Mex.—It is stated that arrangements are being made for the construction of a drainage system in Merida to require about 28 miles of pipe; estimated cost, about $5,000,000. Other important municipal improvements are also proposed. H. H. Barnes, of Barnes Bros., 20 Broad St., New York, is interested.

ELECTRIC RAILWAY.—Monterey, Mex.—U. S. Consul-General Hanna, at Monterey, reports that an American syndicate has secured the concession for an electric railway in Monterey, with extensions to Topo Chico. Mackin & Dillon, of Monterey, are interested in this project, as well as the proposed water-works and sewers, to cost $3,000,000.

RAILWAY.—Honduras, C. Am.—The Honduras Construction Co. has been incorporated, with a capital of $50,000, to secure concessions and build railways, telephone and telegraph lines, etc. Wm. H. Stevens, of Brooklyn, N. Y.; Nathaniel H. Kennedy, of East Orange, N. J., and Winfred T. Denison, of Manhattan, Borough, N. Y., are interested.

DEVELOPING LAND.—Ivory Coast, West Africa.—Press reports state that Alfred Kahn, of Paris, representing Kuhn, Loeb & Co., 27 Pine St., New York, has secured control of 300,000 acres of land in Ivory Coast, which is to be consolidated with the interests of the Ivory Coast Gold Fields Co. It is proposed to develop the mines, etc., in this region.

ELECTRIC TRAMWAY.—Guadalajara, Mex.—We are informed that there is an important deal about to be consummated in the consolidation of the Guadalajara Tramway Co. with the Compania de Luz y Fuerza Motric Electricas. Jose Maria Bermejillo, the principal owner of the electric company, has succeeded in getting 51% of the tramway company stock, so, although there is a strong minority opposed to the deal, it seems sure to go through, in which event the lines will be changed to electric traction.

STEEL RAILS.—Victoria, Australia.—Reports state that the Maryland Steel Co., of Sparrow's Point, Md., U. S. A., has been awarded the contract, at £6 2d. c. i. f. Fremantle, for furnishing about 6,500 tons of steel rails.——As noted in our last issue, bids are wanted by the Agent-General for Victoria, 15 Victoria St., London, S. W., Eng., until April 14 for furnishing 15,850 tons of steel rails and 1,505 tons of fish plates.——It is stated that the New Zealand government will soon spend about $2,000,000 for railway supplies.

DEVELOPING LAND.—Mexico.—Reports state that an American company, represented by R. M. Osgood, has acquired an immense iron deposit located 192 miles west of Guadalajara, Mex. The company has a capital stock of $1,000,000, and it proposes to develop the property.——Dr. Wm. S. Beck and Henry Warrum, of Indianapolis, Ind., have just purchased a tract of agricultural land in the State of Vera Cruz. They will expend $500,000 in converting the property into a coffee plantation and in making improvements.

RAILWAY.—Turkey.—Press reports state that an irade has been promulgated approving of the final convention for the construction of the Bagdad R. R. by the German Anatolio R. R. A guarantee of 17,000 francs per kilometer is promised. The line will be carried to the Persian Gulf, but the proposal to fix the terminus at Koweit is abandoned, owing to political considerations. The concession for a line of railroad connecting the Bosphorus with the Persian Gulf is regarded as extremely important, both politically and commercially. When completed it will bring India within eight days of London, and will open a new international granary and bring a considerable part of Asia Minor under German influence. The German concession conflicts seriously with the Russian plans for the extension of the Siberian Railroad toward India.

MACHINERY.—Spain.—It is understood that J. F. Villalta, of Barcalona, Spain, now visiting the U. S., wishes to secure prices, catalogues, etc., of the following kinds of machinery: Equipment for marble quarrying, machinery for working plates and equipment for enameling same, machinery for making bobbins, wooden supplies for spinning purposes, machinery for making acetylene brass burners (prices for burner caps), hoisting machinery for mines and various machinery for coal and lead mines, copper ore furnace plants, machinery for making putty, plant for decorating glass, machinery for making shavings for packing purposes, machinery for manufacturing silverware from both ingots and sheets, rice drying outfit, lathes for turning bone and ivory, bone comb making machines, cocoanut breaking machinery and canned goods plant. Mr. Villalta may be addressed in care of Alfred H. Post & Co., Produce Exchange Bldg. Annex, New York.

PORT WORK.—Argentina.—Plans for a commercial port at Bahia Blanca, Argentina, to be built by a French company, are being prepared by Luis Kunkler, Carlos Delavigae and Rene Coulon. The water will be 32 ft. deep, and the port will accommodate about 1,000,000 tons a year and will cost about $6,000,000 gold.——The French Railroad Co. of the Province of Santa Fe has applied to the Argentine Republic for authority to extend, at its own expense, the maritime installations which it owns in the port of Colastine on the Parana. The company intends principally to build 800 meters of wharf and to erect grain elevators and to put in cranes, as well as all other machinery necessary for loading and unloading merchandise. As is usual in the case of works of this kind, the material and machinery necessary will be admitted free of duty.——According to the "Monthly Bulletin of the French Chamber of Commerce" of Buenos Ayres, the government has approved the basis of a contract presented by the Inspector-General of Navigation and Ports for the construction and working of a commercial port in the Bay of San Clemente, in the South Atlantic. Jorge Guerrero and Martinez Ituno are named as the concessionaires for the construction work of the port, which is situated between Cape San Antonio and the mouth of the River San Clemente.

RAILWAYS.—Mexico.—The Mexican Central R. R. Co. is planning to extend its line about 150 miles, from Torreon to Trevino, 100 miles; from Aguas Calientes to Guadalajara, and other important improvements, to cost about $6,000,000.——There is a report that either the A., T. & S. Fe R. R. Co or the C., R. I. & R. Ry. Co. will secure control of the M. C. R. R.——Col. M. B. Place, owning mines at Galvana, Chihuahua, Mex., has made arrangements with Pittsburg, Pa., parties to build 40 miles of railway to connect the mines with the reduction works.——K. C., Mex. & O. R. R. Co., N. P. Pratt, Ch. Engr., Kansas City, Mo., has let contracts to a Belgian firm for 600 miles of rails for its line in Mexico, the rails to be delivered at Port Stilwell and Tampico, Mex., at $10 per ton less than the lowest American price. About one-fifth of the 1,600 miles of the line has been graded without the issuance of bonds, and the officials say without incurring any indebtedness other than for current expenses. They say that with rails bought and paid for for two-fifths of the total length of the line and the right of way secured for about four-fifths of the distance, they shall have available several million dollars of construction company capital from stock sold by Arthur E. Stilwell, Pres., of Kansas City, in London.——The Chihuahua Mineral Branch will be built to a point south of Santa Eulalia and in touch with all mines of that region. The road will be standard gage.

CANALS.—France.—U. S. Consul W. P. Atwell, of Roubaix, France, reports as follows regarding the proposed construction of navigable canals in his consular district: Plans are being considered for a canal from the Scheldt to the Meuse, for the Chiers Canal and the Northern Canal. The canal from the Scheldt to the Meuse is to be over 90.7 miles in length, but as more than 5.6 miles of this distance are already constructed, being the canal from the Sambre to the Oise, there remains only a distance of about 6.8 miles to be built. The elevation of the water width is to be 39.37 ft., with an anchorage of 7.25 ft. Two towpaths 16.5 ft. wide are provided for, and these are to be paved with stone over a width of 10 ft. The probable traffic is estimated at 2,160,000 tons; 1,440,000 tons in the direction of the Meuse, and 720,000 tons from the Meuse to the Scheldt. The estimated cost is $19,184,000, or about $126,830 per kilometer. This amount will be paid in part by the state and in part by those interested in the construction, who will reimburse themselves by tolls and a monopoly of the towpaths. The Chiers Canal, a continuation of the Scheldt-Meuse Canal, branches toward the east at Ramilles and ends at Mount St. Martin. The proposed length is about 58 miles—depth, width and anchorage the same as the Scheldt-Meuse Canal. It will be fed by direct water heads at Chiers; also by a reservoir, which is to be built at Mt. St. Martin. The cost is estimated at $8,296,000, an average cost of $89,437 per kilometer. The Northern Canal is to comprise three sections, as follows: First section, Arleux to Peronne, 28 miles; second, Peronne to Ham, 16 miles; third, Ham to Noyon, 14.9 miles. The width at low-water level will be 39.37 ft., with a depth of 7.25 ft. at ordinary level and 10 ft. at summit level. The estimated cost is $11,580,000, to be provided for as in the case of the Scheldt-Meuse Canal.

SIBERIA.—Russia.—The "Journal of Commerce" reports that negotiations are now under way with a view to interesting American capitalists in the Russian Pacific Co. The preliminary prospectus states that the enterprise will carry on "various sea and river industries in all the Russian seas and rivers of Eastern Asia, the Okhotsk, Japan, Kamtschatka and Bering Seas, the mouth of the River Amur and its gulfs, straits and streams, the islands of the Okhotsk Sea and the mainland of Eastern Asiatic Russian territory for fowl, beast and fish industries; likewise for the preparation of canned goods and general utilization of all kinds of products, such as salt, timber and other products necessary to the said enterprise; likewise trading with them and wares made from them, and also other goods." The capital will be $750,000. The promoters are American residents in St. Petersburg, one of whom J. W. Gardner, of the C. & J. W. Gardner Co., Russian agents for the Pratt & Whitney Co., of Hartford, Conn., is now in New York, stopping at the Belvedere House. The charter of the company, it is said, will be one of the most liberal ever issued to foreigners by the Russian authorities. At first the operations of the company will be confined to the fisheries of the Amur and its mouth, Tartar Gulf and Okhotsk Sea. Quantities of American machinery will be utilized. The company will erect a factory for cleaning, handling, packing and shipping the fish, and will also operate plants for the manufacture of wooden barrels, boxes and crates, also tin cans and boxes. There will also be a refrigerating plant for storing the fish during the summer months and freezing sturgeon before shipping. An ocean steamer is to be built with cold storage for shipping sturgeon and other frozen or perishable fish from the factories along the eastern coast to Odessa and Hamburg. A river tug, several barges and ice-breaking apparatus will also be required. A cold storage plant will, it is expected, be built at Odessa. The equipment of the barrel factories will consist of boilers and engines of 200 HP. and 40 machines for making barrels. This is estimated to cost $35,000. The machinery in the refrigerating plant will entail an expenditure of some $30,000, and the cold storage plant at Odessa will mean an outlay of $35,000. The company's charter, it is said, will also permit of the operating of a fleet of steamships to ply between Vladivostock and Chinese, Japanese and American ports, the exploiting of various gold and other mineral lands in Russian territory and the building of warehouses for various trading purposes in Siberia.

CONTRACT PRICES.

SEWER PIPE.—Detroit, Mich.—C. H. Little & Co. have been awarded the contract, at 77% off list prices for sewer pipe. Last year the city paid 88% off.

BRICK SEWERS.—Springfield, Ill.—Bretz & Son have been awarded the contract, at 88 cts. a lin. ft., for building an 18-in. brick sewer in North Grand Ave.

BRICK PAVING.—Wellsville, O.—E. A. Freshwater, of Penrith, W. Va., has submitted a bid, at 96 cts. a sq. yd., for brick paving in certain streets, to cost about $12,000.

WATER SERVICE PIPE.—Brockton, Mass.—Churchill & Washburn have been awarded the contract, at $44.10 a 1,000 ft. for 1-in. and $96.23 a 1,000 ft. for 2-in. service water pipe.

DITCH, ETC.—Monticello, Ind.—We are informed that the following bids were received Jan. 28, 1902, for constructing a ditch, etc.: Bunnell & Eddy, Reynolds, Ind., 6,882 cu. yds., 9 cts.; Grant Luce, Monticello, 10,222 yds., 9 cts.; M. B. Spencer, Monticello, 25,773 yds., 10.50 cts.; John N. Bunnell, Reynolds, 2,600 ft. of 6, 7 and 8-in. tile, $132.

BRICK SEWER.—Williamsport, Pa.—The following bids were received Jan. 29, 1902, for constructing Section 1 of an 11-ft. brick sewer, etc., in Locust St.; as advertised in Engineering News; Theodore Cornman, Cy. Clk.:

BIDS RECEIVED AT WILLIAMSPORT, PA., JAN. 29, 1902, FOR CONSTRUCTING BRICK SEWERS.

Plan A.—For an All-Brick Section of Sewer with Concrete Foundations where Required.

Item No.	Quantities.		W. H. Cookman, Niagara Falls, N. Y.	Irwin Bros., Greenville, O.	Busch, Miller & Franklin, Buffalo, N. Y.	George B. Stucker, Harrisb'g, Pa.	F. A. Brotsch, Rochester, N. Y.
1.	Normal section	1,500 lin. ft.	$18.50	$22.00	$25.00	$32.00	$31.11
2.	Concrete foundation	300 " "	16.50	17.40	33.00	28.00	28.57
3.	Railroad section	200 " "	30.00	58.00	51.00	61.00	87.17
4.	Concrete foundation	425 " "	5.50	7.00	6.00	7.00	5.29
5.	Concrete in outlet	400 cu. yds.	5.50	8.00	5.00	7.00	6.34
6.	Underdrain	1,500 lin. ft.	.35	.80	.35	.75	.50
7.	Lumber in drains	10,000 " "	30.00	50.00	20.00	20.00	18.00
8.	Granite curb	24 " "	2.00	4.50	1.00	1.00	2.50
9.	Hand railing	90 " "	1.50	4.00	2.50	1.00	2.00
10.	Extra excavation	1,000 cu. yds.	.40	.40	1.50	.75	.60
11.	Extra for outlet	1,000 " "	.35	.75	.75	.75	1.00
12.	Extra in channel	1,000 " "	.25	.80	.50	1.00	2.00
13.	Manholes	2 each	30.00	50.00	50.00	100.00	100.00
	Total		$45,306	$60,213	$65,974	$78,514	$82,424

Item No.	Quantities.		Plan B.*—For All-Concrete Section: Busch, Miller & Franklin.	Irwin Bros.	George B. Stucker.	F. A. Brotsch.	Plan C.†: Busch, Miller & Franklin.	F. A. Brotsch.
1.	Normal section	1,800 lin. ft.	$20.00	$20.00	$24.00	$25.70	$18.50	$29.70
3.	Railroad section	200 " "	48.00	61.00	45.00	80.30	47.00	84.30
4.	Concrete foundation	250 cu. yds.	6.00	7.00	7.00	5.29	6.00	5.29
5, 6, 7, 8, 9, 10, 11, 12 and 13, as Plan A			5,824.00	7,418.00	6,939.00	7,506.00	5,824.00	7,506.00
	Total		$52,924	$58,568	$60,889	$71,147	$50,024	$79,149

*Plan B.—For an all-concrete section of sewer, with concrete foundations where required.
†Plan C.—For a concrete and steel section of sewer, with concrete foundation where required.

DREDGING.—Savannah, Ga.—We are informed that the following bids were received Jan. 16, 1902, for 90,000 cu. yds. of dredging in Savannah Harbor; Capt. C. E. Gillette, U. S. Engr.; all bids were rejected as too high: Rittenhouse-Moore Dredging Co., Mobile, Ala., 16 cts. a cu. yd.; P. Sanford Ross (Inc.), Jersey City, N. J., 20 cts.; Empire Dredging Co., Savannah, Ga., 16½ cts.

WATER PIPE.—Atlantic City, N. J.—W. C. Hawley, Supt. Water Dept., writes us that the following bids were received Feb. 3, 1902, for furnishing 152 tons (of 2,000 lbs.) of 20-in. ball joint water pipe; pipe to be delivered f. o. b. Atlantic City: U. S. Cast Iron Pipe & Foundry Co., Land Title Bldg., Philadelphia, $110 a ton; Dimmick Pipe Co., Birmingham, Ala., $87.50 (accepted).

WATER PIPE.—Worcester, Mass.—E. F. Fletcher, Mayor, has let the following contracts for furnishing wrought-iron and steel water pipe: Braman, Darr & Co., Worcester, 22,000 ft. of plain wrought-iron 1-in. pipe, 4.96 cts. a ft.; 6,000 ft. 1½-in. wrought-iron pipe, 6.40 cts. a ft.; 22,000 ft. of wrought-steel pipe, 1-in., 4.57 cts.; 6,000 ft., 1¼-in., 6.24 cts. Wm. Allen & Sons Co., castings, 2¼ cts. a lb. They will buy the old castings for 75 cts. a 100 lbs.

DREDGING.—Brooklyn, N. Y.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., received the following bids Jan. 25, 1902, for dredging 33,000 cu. yds. of mud, sand, silt, etc., at the Brooklyn Navy Yard: R. G. Packard Co., 130 Pearl St., New York, 15 cts. a cu. yd., soft material only, 400 yds. per day; Morris & Cumings Dredging Co., 17 State St., New York, 22¼ cts., scow measurement; W. H. Beard Dredging Co., 13 William St., New York, 21.6 cts., scow measurement.

SEWER BRICK.—Chicago, Ill.—Frank Murphy, Contract Clk., 222 City Hall, writes us that the Illinois Brick Co., Chamber of Commerce Bldg., Chicago, submitted the only bid Jan. 30, 1902, for furnishing about 10,000,000 sewer brick, at $5.18 per 1,000, delivered in cases on site of work, or $5.39 per 1,000 delivered in wagons on site of work. A local report states that this contract has been accepted by Commissioner of Public Works Blockl, the company to furnish 46,500,000 high-grade brick by Dec. 31. This quantity is to be used on the intercepting sewers, 28,500,000 going to section G, at 39th St. and Cottage Grove Ave., 8,000,000 for the Agnew section on 39th St. and 10,000,000 for section H in Lake View.

TRAP ROCK.—Easton, Pa.—The following bids were received Jan. 23, 1902, by the highway department for furnishing trap rock, crushed stone, etc.: Crushed stone, Duerr Construction Co., of Bethlehem, 90 cts. per ton; Middle Valley, N. J., trap rock, L. H. Trimmer, $1.55 per ton; Moore's, N. J., trap rock, Delaware River Quarry & Construction Co., $1.49; Rocky Falls, Pa., trap rock, same bidder, $1.30; crushed stone, John Walz, 85 cts. per ton; Bound Brook trap rock, same bidder, $1.33 per ton; Frank P. Lesher, crushed stone, 84 cts. per ton; trap rock, same bidder, $1.50 per ton. James Adam has been awarded the contract at 33 cts. a lin. ft. for street crossings, 38 cts. a sq. yd. for cobble stone paving and 22 cts. per sq. yd. for old paving.

LEVEE WORK.—Louisiana.—The state board of engineers, Cotton Exchange Bldg., New Orleans, La., let the following contracts Jan. 16, 1902, for certain levee work: Leper & Ryan, Nacogdoches, Tex., Killarney levee, Madison parish, 200,000 yds., at 12.19 cts.; Dameron & White, New Orleans, Fannie Riche levee, Pointe Coupee parish, 21,000 yds., at 20 cts.; Heigeson & Garbish, Vicksburg, Miss., Belmont to Viola, West Baton, Rouge parish, 52,000 yds., at 18.95 cts.; Jordan Bros., Shreveport, La., Willow Bend levee, Bossier parish, 35,000 yds., at 14.40 cts.; W. N. Rushing, Shreveport, Vincent levee, Bossier parish, 32,000 yds., at 14.40 cts. Among the contractors who bid on this work were C. D. Leper, R. T. Clark, Natchez; Bat O'Brien, Natchez; W. C. Mullen, St. Joseph, La.; W. L. Lennan, Simmsport, La.; John Ryan, Texas; Hunter Bros., Jordan Bros., Robert Nicholson, Shreveport; E. P. White, New Orleans.

WATER METERS.—Columbus, O.—Director Immel, of the department of public improvements, received the following bids Feb. 8, 1902, for furnishing 10,000 water meters; (1) 6,000 ⅝-in. meters, (2) 3,500 ¾-in., (3) 375 1-in., (4) 70 1½-in., (5) 50 2-in., and (6) 5 4-in.:

	1.	2.	3.	4.	5.	6.
Pittsburg Meter Co.	$6.70	$9.40	$13.20	$25.00	$40.00	$160.00
H. R. Worthington	9.50	15.00	20.00	24.75	30.00	200.00
National Meter Co.	8.00	12.00	16.00	30.00	50.00	175.00
Neptune Meter Co.	7.50	10.50	15.00	25.50	44.50	380.00
Hersey Mfg. Co.	7.40	10.50	14.00	28.00	40.00	160.00
Standard W. M. Co.	6.50	9.50	13.50	27.00	34.00	130.00
Thompson Meter Co.	6.30	9.50	13.15	25.00	40.00	150.00
Buffalo Meter Co.	9.00	13.50	18.00	35.00	.....	.....
Union W. Meter Co.	6.50	9.90	14.10	.....	.....	.....

GASOLINE LIGHTING.—St. Paul, Minn.—The council received the following bids Jan. 16, 1902, for gasoline lighting of the streets from Robt. Seeger, Pres. American Development Co., and the Cleveland Vapor Light Co.: For a 14-c. p. flat flame light, Seeger bids 4½ cas. per lamp per day, which is equivalent to $1.35 a month. The Cleveland bid is $1.22 per lamp per month. In case the city furnishes the burner, Seeger bids 7 cts. per night, or $2.10 per lamp per month, while the Cleveland company bid for $1.05 per month. In case a light is moved to a new location, the Cleveland people want $1.35 a month. The Cleveland company offers to put in not less than 2,000 50-c. p. lights for $2.49 each per month. Further, it agrees to turn over the whole plant, exclusive of the posts, at the end of the term, to the city. Seeger bid in three ways on a 60-c. p. light: For not less than 300 nor more than 600 lights, 8¼ cts. per lamp per night, or $2.47 per month. For not less than 600 nor more than 1,000 lights, 8⅛ cts. per night, or $2.44 per month. For not less than 1,500 nor more than 3,000 lights, 8 cts. per night, or $2.40 per month. Under all the Seeger propositions the plant is to remain his property. In case that the Cleveland people get the contract, they want 90 days in which to install their incandescent plant, but no time is asked to get ready for the plain lighting job, at least not more than the specifications allow, which is 15 days.

WATER MAINS, ETC.—Madisonville, O.—D. Edward Sauer, Clk., Water-Works Trustees, informs us that the following bids were received Feb. 4, 1902, for a water tower and tank, and extending mains; (1) W. H. Settle & Co., Madisonville, O.; (2) Chicago (Ill.) Bridge & Iron Co.; (3) Rosser & Castoe, Bellaire, O.; (4) T. C. Brooks & Sons, Jackson, Mich.:

	1.	2.	3.	4.
Tower and tank	$10,400	$10,550	$6,500	$10,800
10-in. pipe, a lin. ft.	1.35	1.38	1.20	1.42
4-in. pipe a lin. ft.	.55	.57	.52	.61
10-in. valves, each	28.00	28.00	56.00*	29.50
4-in. valves, each	9.80	9.95	11.00†	10.25
Fire hydrants, each	29.00	29.80	26.00	31.00
Valve boxes, each	3.10	3.15	...‡	3.00
Special casting, a lb.	.03	.032	.025	.03¼

*With chambers. †Complete. ‡Included in price of valves.

WATER MAINS.—Seattle, Wash.—A. H. Dimock, Asst. Cy. Engr., informs us that the following bids were received Jan. 25, 1902, for laying water mains in Melrose Ave.; the bids being based on the use of machine-banded wooden stave pipe; the pipe is to supply the suburban district of Fremont, Green lake, State University, etc.; contract let to C. J. Erickson:

Quantities.		C. J. Erickson, 1924 Terry Ave.	Stirrat & Goetz, 117 Columbia St.
Engineering and advertising, etc.		$4,000	$4,000
Machine-banded wooden pipe:			
18-in.	16,850 lin. ft.	1.75	2.63
16-in.	2,930 " "	1.40	2.40
10-in.	2,385 " "	.90	1.38
8-in.	15,750 " "	.85	1.05
6-in.	14,445 " "	.78	.80
6-in. cast-iron pipe	300 " "	1.50	2.50
18-in. gate valves	15 each	125.00	130.00
16-in. " "	2 "	105.00	110.00
10-in. " "	4 "	40.00	50.00
8-in. " "	18 "	25.00	31.00
6-in. " "	20 "	18.00	25.00
Brick chambers	6 "	50.00	40.00
Fire hydrants	61 "	80.00	85.00
Air valves	15 "	6.00	10.00
Box. Lake Union brdg	27,000 ft. B.M.	25.00	15.00
Total		$73,841	$96,840

INDUSTRIAL NOTES.

THE ILLINOIS BRICK CO., Chicago, has a contract for 46,500,000 sewer brick for the city of Chicago. This is claimed to be the largest contract for sewer brick ever awarded.

THE WILLIAM B. POLLOCK CO., Youngstown, O., announces the completion of its new plant to replace the one destroyed by fire. The new works are considerably larger than the old and have switching connections with four railways.

THE HANDLAN-BUCK MFG. CO., 210 North Third St., St. Louis, has succeeded the M. M. Buck Mfg. Co., manufacturers of railway supplies, and has elected the following officers: Pres., A. H. Handlan; Treas., E. W. Handlan; Secy., A. H. Handlan, Jr.

THE HOLTZER-CABOT ELECTRIC CO., 143 Liberty St., New York, has recently supplied the Charlestown and Mare Island Navy Yards with 60 motors, ranging from 1 to 35 HP. The home office of the company is at Brookline, Mass. H. J. Brewer is New York manager.

MESKER & BROTHER, 421 South Sixth St., St. Louis, have a contract for 10,000 ft. of pressed steel fence of special design for the World's Fair Grounds in that city. This design was prepared especially for this work, and is claimed to be unlike any style ever before made in this country.

THE AMERICAN AIR COMPRESSOR WORKS, 26 Cortlandt St., New York, has been organized to manufacture air and gas compressors, etc., and has acquired the old South Brooklyn Steam Engine Works, Van Brunt and Summit Sts., Brooklyn, where John J. Riley, Treasurer of the new company, has been employed and established for nearly 40 years. William S. Fairhurst, late manager of the works of the Clayton Air Compressor Works, is manager of the new company, and Frederick B. Vail, late manager of the office force of the Clayton company, will have charge of the sales department. The company announces that the plant of the Clayton Air Compressor Works has been purchased by the International Steam Pump Co., and that as many of the patents under which the Clayton compressors were constructed have expired, it is prepared to furnish any repairs for the Clayton machines as well as to build new and improved compressors.

THE CROCKER WHEELER CO., Ampere, N. J., has furnished an electric power plant to the Joseph Dixon Crucible Co., Jersey City, to replace four separate steam plants. A 100-K-W. generator and 24 motors have already been installed. January shipments included: DeLamar Copper Ref. Co., Carteret, N. J., 1 520-K-W., 1 100-K-W. and 1 50-K-W. generators; Iron City Engr. Co., Uniontown, Pa., 4 100-K-W. generators; Anglo-American Prov. Co., Chicago, 7 motors, 10 to 75 HP.; Penn. Steel Casting Co., Chester, Pa., 1 350-K-W. generator; Quintard Iron Works, New York, 1 65-K-W. generator; Marine Eng. & Mach. Co., Harrison, N. J., 2 50-K-W. generators, 1 60-HP. motor, 2 35-HP. motors; U. S. Elec. Lighting Co., Washington, D. C., 1 90-K-W. generator, 1 130-HP. motor; National Tube Co., Pittsburg, Pa., 1 110-K-W. generator; Niles Tool Works, Hannibal, O., motors; Erie Rapid Transit Ry., Harbor Creek, Pa., 1 200-K-W. generator; L. S. & M. S. Ry. Shops, Collinwood, O., 1 400-K-W. and 1 75-K-W. generator; Mechanical Laboratory, Lehigh University, South Bethlehem, Pa., 1 30-K-W. generator; Am. Car & Foundry Co., Madison, Ill., 1 110-K-W. generator; Armour Fertilizer Works, Atlanta, Ga., 1 150-K-W. generator, 2 50-HP. motors, 1 90-HP. motor; Park Steel Co., Pittsburg, 1 200-K-W. generator; J. K. Farley Mfg. Co., Chicago, 1 150-K-W. generator; Fort Hill Chemical Co., Rumford Falls, Me., 4 140-K-W. generators.

NEW COMPANIES.—United States Light & Heating Co., Trenton, N. J.; $3,000,000; W. B. Irwin, Wallace Young, John J. Gilbert.

Houston Light & Power Co., Houston, Tex.; $750,000; Blake Dupree, W. H. Chapman, H. C. Lewis.

California Gas & Electric Corporation, San Francisco, Cal.; $30,000,000; A. G. Childs, Boston, Mass.; R. R. Colgate, New York, N. Y.; R. M. Hotaling, San Francisco.

People's Light & Power Co., Jonesboro, Ark.; $20,000; H. H. Houghton, R. H. Meyer, J. E. Jones.

Oroville Light & Power Co., Oroville, Cal.; $225,000; J. W. Goodwin, C. M. Smith.

Mill Creek Light & Power Co., Walla Walla, Wash.; $250,000; E. S. Isaacs, W. S. McCally, Gilbert Hunt.

Nebraska Electrical Co., Lincoln, Neb.; $25,000; Saml G. Musser, C. C. Barr, G. O. W. Farnham.

Nashville Coke & Gas Co., Nashville, Tenn.; $5,000,000; William A. Jones, J. B. Short, M. A. Carpenter.

Madison County Gas & Electric Co., Oneida, N.Y.; $200,000; G. S. Sheppard, John A. Underwood, Fred. H. Lynn.

Port Jervis Electric Light, Power & Gas Co., Port Jervis, N. Y.; $400,000; R. L. Weaver, Benjamin Ryall, W. A. Parshall.

United Gas & Electric Co., $4,000,000; John D. Fearhahe, Frank B. Pierce, E. P. Meeker, Jersey City, N. J.

Shrewsbury Motor Works Co., Fair Haven, N. J.; $25,000; A. V. Evans, C. C. Smock, D. H. Smock.

Delran Gas Co., Burlington, N. J.; $10,000; H. C. Robinson, Ernest Watts, T. H. Birch.

Prometheus Electric Co., New York, N. Y.; $500,000; B. T. Lynch, S. G. Stewart, George Russell.

Albert Lea Light & Power Co., Albert Lea, Minn.; $400,000; George C. Edwards, Bridgeport, Conn.; Frank M. Jewett, Chicago; Mark M. Jones.

Mail Delivery Notice.

The first pages of Engineering News go to press on Monday each week, and the last pages, including "Wants," "Proposals" and "For Sale" cards, about Wednesday noon. All papers for Boston, Philadelphia, Washington and Greater New York should be received **Thursday morning.** All places East of the Mississippi should be reached by Friday afternoon.

If your paper is not received promptly, make a complaint in writing to your local post-office officials. This will cause an investigation, and the complaint will finally reach the office where the delay occurs.

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